



Twelfth Census of the United States.

CENSUS BULLETIN.

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AGRICULTURE.

MARYLAND.

Hon. WILLIAM R. MERRIAM,
Director of the Census.

SIR: I have the honor to transmit herewith, for publication in bulletin form, the statistics of agriculture in the state of Maryland, taken in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that—

The schedules relating to agriculture shall comprehend the following topics: Name of occupant of each farm, color of occupant, tenure, acreage, value of farm and improvements, acreage of different products, quantity and value of products, and number and value of live stock. All questions as to quantity and value of crops shall relate to the year ending December thirty-first next preceding the enumeration.

A "farm," as defined by the Twelfth Census, includes all the land, under one management, used for raising crops and pasturing live stock, with the wood lots, swamps, meadows, etc., connected therewith. It includes also the house in which the farmer resides, and all other buildings used by him in connection with his farming operations.

The farms of Maryland, June 1, 1900, numbered 46,012, and had a value of \$175,178,810, of which amount \$54,810,760, or 31.3 per cent, represents the value of buildings, and \$120,367,550, or 68.7 per cent, the value of the land and of improvements other than buildings. On the same date the value of farm implements and machinery was \$8,611,220, and of live stock, \$20,855,877. These values, added to that of farms, give the "total value of farm property," \$204,645,407. The products derived from domestic animals, poultry, and bees, including animals sold and animals slaughtered on farms, are referred

to in this bulletin as "animal products." The total value of all such products, together with the value of all crops, is termed "total value of farm products." This value for 1899 was \$43,823,419, of which amount \$13,606,450, or 31.0 per cent, represents the value of animal products, and \$30,216,969, or 69.0 per cent, the value of crops, including forest products. The total value of farm products for 1899 exceeds that for 1889 by \$17,380,055, or 65.7 per cent.

The "gross farm income" is obtained by deducting from the total value of farm products the value of the products fed to live stock on the farms of the producers. In 1899 the reported value of products fed was \$8,769,890, leaving \$35,053,529 as the gross farm income. The percentage which this latter amount is of the "total value of farm property" is referred to in the text as the "percentage of gross income upon investment." For Maryland in 1899 it was 17.1 per cent. As no reports of expenditures for taxes, interest, insurance, feed for stock, and similar items have been obtained by any census, no statement of net farm income can be given.

The statistics presented in this bulletin will be treated in greater detail in the final report on agriculture in the United States, which will be published about June 1, 1902. The present publication is designed to present a summarized advance statement for Maryland.

Very respectfully,

Chief Statistician for Agriculture.

AGRICULTURE IN MARYLAND.

GENERAL STATISTICS.

Maryland has a total area of 12,210 square miles, comprising 2,350 square miles of water surface, including Chesapeake Bay and various water courses, and 9,860 square miles of land surface. Of the latter, 8,078 square miles, or 81.9 per cent, are included in farms.

Topographically, the state may be divided into three sections. The western part, which is traversed by the nearly parallel ranges of the Appalachian system, contains fertile wheat lands and fine peach orchards. The north central region, known as the Piedmont plateau, has a strong, fertile soil, adapted to the cultivation of wheat and corn, and is well suited to grazing. In the southern part of the state and east of the bay the soil is light, and well adapted to truck farming and horticulture. The Washington and Baltimore markets render gardening, fruit raising, and dairying especially remunerative. The excellent transportation facilities afforded by railroads and steamship lines have been of great importance in developing the agricultural resources of the state.

NUMBER AND SIZE OF FARMS.

The following table gives, by decades since 1850, the number of farms, the total and average acreage, and the per cent of farm land improved.

TABLE 1.—FARMS AND FARM ACREAGE: 1850 TO 1900.

YEAR.	Number of farms.	NUMBER OF ACRES IN FARMS.				Per cent of farm land improved.
		Total.	Improved.	Unimproved.	Average.	
1900.....	46,012	5,170,075	3,516,352	1,653,723	112.4	68.0
1890.....	40,798	4,952,390	3,412,908	1,539,482	121.4	68.9
1880.....	40,517	5,119,831	3,342,700	1,777,131	126.4	65.8
1870.....	27,000	4,512,579	2,914,007	1,598,572	167.1	64.6
1860.....	25,494	4,885,571	3,002,267	1,883,304	189.7	62.1
1850.....	21,860	4,634,350	2,797,905	1,836,445	212.0	60.4

Between 1850 and 1900 the number of farms more than doubled. During the last decade there was an increase of 5,214 farms, or 12.8 per cent. The total acreage of farm land, however, has increased but 11.6 per cent since 1850. The increase in the number of farms has been accompanied, therefore, by a decrease in the average size of farms, and

the table shows that this decrease has been continuous throughout the period covered.

The acreage of improved land has steadily increased, except during the decade from 1860 to 1870. The rate of increase for the last decade was 3.0 per cent. In 1900 over one-half of the entire land surface of the state was reported as improved farm land.

FARM PROPERTY AND PRODUCTS.

Table 2 presents a summary of the principal statistics relating to farm property and products for each census year, beginning with 1850.

TABLE 2.—VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND OF FARM PRODUCTS: 1850 TO 1900.

YEAR.	Total value of farm property.	Land, improvements, and buildings.	Implements and machinery.	Live stock.	Farm products. ¹
1900.....	\$204,045,407	\$175,178,310	\$8,611,220	\$20,855,877	\$43,823,419
1890.....	200,792,960	175,058,550	6,540,090	19,194,320	25,443,364
1880.....	187,157,266	165,503,341	5,788,197	15,865,728	28,839,281
1870 ²	194,072,058	170,369,684	5,268,676	18,433,698	³ 35,846,927
1860.....	164,652,059	145,973,677	4,010,529	14,667,853	-----
1850.....	97,639,622	87,178,545	2,468,443	7,997,634	-----

¹ For year preceding that designated.

² Values for 1870 were reported in depreciated currency. To reduce to specie basis of other figures they must be diminished one-fifth.

³ Includes betterments and additions to live stock.

Since 1850 the total value of farm property has increased \$107,005,785, and in the last ten years, \$3,852,447. Of the latter amount, \$119,760, or 3.1 per cent, represents the increase in the value of farms; \$2,071,130, or 53.8 per cent, in that of implements and machinery; and \$1,661,557, or 43.1 per cent, in that of live stock. The value of farm products for 1899 exceeds that reported for 1889 by \$17,380,055, or 65.7 per cent. Part of this increase, and of that in implements and machinery, and in live stock, is doubtless the result of a more detailed enumeration in 1900 than heretofore.

COUNTY STATISTICS.

Table 3 gives an exhibit of general agricultural statistics by counties.

TABLE 3.—NUMBER AND ACREAGE OF FARMS, AND VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, JUNE 1, 1900, WITH VALUE OF PRODUCTS OF 1899 NOT FED TO LIVE STOCK, AND EXPENDITURES IN 1899 FOR LABOR AND FERTILIZERS, BY COUNTIES.

COUNTIES.	NUMBER OF FARMS.		ACRES IN FARMS.		VALUES OF FARM PROPERTY.				Value of products not fed to live stock.	EXPENDITURES.	
	Total.	With build-ings.	Total.	Improved.	Land and improve-ments (ex-cept build-ings).	Buildings.	Imple-ments and machinery.	Live stock.		Labor.	Fertili-zers.
The State	46,012	45,364	5,170,075	3,516,352	\$120,867,550	\$54,810,760	\$8,611,220	\$20,855,877	\$35,053,529	\$5,715,520	\$2,618,890
Allegany	894	881	160,848	75,905	1,945,000	669,940	136,730	838,974	519,327	58,600	16,480
Anne Arundel	1,889	1,835	206,967	148,325	3,659,970	1,835,740	275,470	598,679	1,882,241	891,670	183,970
Baltimore	4,496	4,422	340,206	244,806	23,190,670	9,295,710	1,285,380	2,259,295	4,850,962	866,030	313,560
Baltimore city	169	154	3,131	2,438	1,527,110	417,010	33,080	69,386	339,034	55,270	3,830
Calvert	1,077	1,046	136,625	88,605	1,546,070	659,100	100,840	806,412	557,196	86,820	46,480
Caroline	1,863	1,849	183,501	125,908	2,374,970	1,051,050	243,080	579,514	1,125,075	125,240	98,290
Carroll	3,352	3,297	276,953	227,693	7,210,730	4,501,850	719,340	1,496,895	2,437,966	336,560	160,000
Cecil	1,633	1,616	200,629	141,401	4,773,490	3,024,820	440,610	984,644	1,507,383	301,840	140,480
Charles	1,900	1,877	263,265	153,465	2,775,240	1,215,610	191,650	578,843	823,675	68,240	48,500
Dorchester	2,007	1,990	243,497	128,160	2,761,440	1,085,720	218,740	628,417	1,049,181	138,960	76,800
Frederick	3,747	3,729	374,331	308,041	12,394,570	5,645,840	855,380	2,160,795	2,785,448	502,250	190,560
Garrett	1,788	1,765	243,510	123,932	2,900,670	992,210	226,210	822,072	899,714	68,600	23,220
Harford	2,431	2,400	248,925	174,255	5,519,510	4,180,360	570,600	1,460,396	2,154,353	372,010	272,960
Howard	1,214	1,198	146,039	110,546	3,494,690	2,275,470	321,990	676,286	1,041,321	217,660	108,410
Kent	941	917	169,288	128,944	4,258,300	1,865,050	276,780	774,715	1,454,329	803,010	112,500
Montgomery	2,085	2,070	233,469	212,840	9,491,980	3,525,170	576,010	1,486,558	2,160,751	418,000	198,370
Prince George	2,374	2,315	265,003	174,278	5,710,630	2,577,410	323,826	712,118	1,482,749	293,210	74,310
Queen Anne	1,456	1,437	224,143	172,596	4,558,610	1,590,780	384,456	1,049,553	1,400,201	288,380	130,330
St. Mary	1,292	1,280	192,503	109,553	1,825,470	870,550	158,530	460,564	685,465	108,570	68,230
Somerset	1,521	1,496	144,970	82,650	1,622,690	995,000	157,020	351,848	770,197	131,070	42,030
Talbot	1,199	1,193	164,792	119,266	4,200,570	1,690,700	304,220	759,581	1,361,877	241,480	89,040
Washington	2,393	2,358	249,221	197,948	8,228,320	3,552,080	516,250	1,221,620	1,967,389	309,760	111,540
Wicomico	2,314	2,278	207,284	122,458	1,823,350	832,320	171,640	469,069	940,208	79,380	60,550
Worcester	1,987	1,961	241,435	132,549	1,978,540	878,290	173,400	589,658	926,542	72,360	62,490

Increases in the number of farms are shown for all counties except Anne Arundel and Howard, which show decreases of 0.8 per cent and 2.9 per cent, respectively. Baltimore city shows the highest percentage of increase, 54.4; next in order come the following counties: Charles, 53.6 per cent; Caroline, 47.5 per cent; and Prince George, 31.8 per cent.

The portion of the land surface included in farms varies from 16.3 per cent in Baltimore city to 99.0 per cent in Carroll county. The average size of farms ranges from 19.7 acres in Baltimore city to 179.9 acres in Kent county. The total acreage in farms increased, in the last decade, in all counties except Anne Arundel, Howard, St. Mary, Baltimore, and Kent, which show decreases of 12.5, 3.5, 2.1, 1.6, and 0.5 per cent, respectively. The decrease in Baltimore city was 11.9 per cent—greater than that in any county except Anne Arundel. The highest percentage of increase was in Allegany county, where it amounted to 22.8 per cent.

More than one-half of the counties in Maryland show increases in the area of improved land, the relative gains being greatest in Caroline, Allegany, Charles, Calvert, Garrett, and Wicomico counties. The greatest relative decreases are shown for Baltimore city, and for Anne Arundel, St. Mary, Worcester, and Howard counties. The per cent of farm land improved varies from 82.3 in Frederick county to 47.3 in Allegany county.

Baltimore, Charles, and Montgomery counties, in the order named, show the largest increases in the value of farms, while the greatest decreases are shown for Queen Anne, Anne Arundel, Talbot, and Howard counties. The

average value of farms for the state is \$3,807, and varies from \$1,212 in Wicomico county to \$12,227 in Baltimore city. The ratio of the value of farm buildings to that of farm land ranges from 75.4 per cent in Harford county to 27.3 per cent in Baltimore city.

Anne Arundel county alone shows a decrease, amounting to 1.2 per cent, in the value of implements and machinery. The greatest percentages of increase are for Baltimore city, 202.4, and Calvert county, 122.3. The per cent of increase for the state is 31.7. The average values per farm vary from \$74 in Wicomico county to \$294 in Kent county.

Decreases in the value of live stock are shown in two instances only, Anne Arundel county, 13.0 per cent, and Baltimore city, 7.4 per cent. The most marked increases are for Charles county, 40.3 per cent; Calvert county, 35.7 per cent; and Worcester county, 35.0 per cent.

The average value per farm of the products of 1899 not fed to live stock varies from \$410 in Wicomico county to \$2,132 in Baltimore city. Greatest average gross incomes per acre are shown by Baltimore city, \$108; Baltimore county, \$14; and Anne Arundel county, \$9. The lowest average, \$3, is shown for Charles county.

The average expenditure per farm for labor, including the value of board furnished, ranges from \$34 in Wicomico county to \$348 in Baltimore city.

Nearly all of the counties report larger expenditures for fertilizers than in 1890. The greatest increase, 213.6 per cent, is shown for Garrett county. The average expenditure per farm ranges from \$13 in Garrett county to \$120 in Kent county.

FARM TENURE.

Table 4 gives a comparative exhibit of farm tenure for 1880, 1890, and 1900. In Table 5 the tenure of farms for 1900 is given by race of farmer, the farms operated by owners being subdivided into four groups, designated as farms operated by "owners," "part owners," "owners and tenants," and "managers." These groups comprise, respectively: (1) Farms operated by individuals who own all the land they cultivate; (2) farms operated by individuals who own a part of the land and rent the remainder from others; (3) farms operated under the joint direction and by the united labor of two or more individuals, one owning the farm or a part of it, and the other, or others, owning no part, but receiving for supervision or labor a share of the products; and (4) farms operated by individuals who receive for their supervision and other services a fixed salary from the owners.

The farms operated by tenants are divided into two groups, designated as farms operated by "cash tenants" and "share tenants." These groups comprise, respectively: (1) Farms operated by individuals who pay a rental in cash or a stated amount of labor or farm produce; (2) farms operated by individuals who pay as rental a stated share of the products.

TABLE 4.—NUMBER AND PER CENT OF FARMS OF SPECIFIED TENURES: 1880 TO 1900.

YEAR.	Total number of farms.	NUMBER OF FARMS OPERATED BY—			PER CENT OF FARMS OPERATED BY—		
		Owners. ¹	Cash tenants.	Share tenants.	Owners. ¹	Cash tenants.	Share tenants.
1900	46,012	30,595	4,056	11,391	66.4	8.8	24.8
1890	40,798	28,154	3,245	9,399	69.0	8.0	23.0
1880	40,517	27,978	3,878	8,661	69.0	9.6	21.4

¹Including "part owners," "owners and tenants," and "managers."

TABLE 5.—FARMS OF SPECIFIED TENURES, JUNE 1, 1900, CLASSIFIED BY RACE OF FARMER, WITH PERCENTAGES.

PART 1.—NUMBER OF FARMS OF SPECIFIED TENURES.

RACE.	Total number of farms.	Owners.	Part owners.	Owners and tenants.	Managers.	Cash tenants.	Share tenants.
The State	46,012	27,838	1,495	180	1,052	4,056	11,391
White	40,169	24,956	1,124	171	947	3,498	9,478
Colored ¹	5,843	2,882	371	9	105	568	1,913

PART 2.—PER CENT OF FARMS OF SPECIFIED TENURES.

The State	100.0	60.5	8.2	0.4	2.3	8.8	24.8
White	100.0	62.1	2.8	0.4	2.4	8.7	23.6
Colored ¹	100.0	49.8	6.4	0.2	1.8	9.6	32.7

¹Including 1 Chinese.

The number of farms operated by owners has increased 9.2 per cent since 1880, each decade showing a gain. The number of cash tenants reported in 1890 was less than in

1880, but in the last decade it has increased 25.0 per cent. The number of share tenants increased in both decades, the rate for the twenty years being 31.5 per cent. The percentages show that the number of farms operated by owners has not increased so rapidly since 1880 as the number operated by share tenants, or so rapidly since 1890 as the number operated by cash tenants.

Of the farms of the state, 87.3 per cent are operated by white farmers and 12.7 per cent by colored farmers. Of the white farmers, 65.3 per cent own all or part of the farms they operate, and 34.7 per cent operate farms owned by others; for colored farmers the corresponding percentages are 55.9 and 44.1.

No previous census has reported the number of farms operated by "part owners," "owners and tenants," or "managers," but it is believed that the number of farms conducted by the last-named class is constantly increasing.

OWNERSHIP OF RENTED FARMS.

The ownership of 14,608 of the 15,447 rented farms in Maryland was ascertained by the enumerators; that of 839 was not reported. Titles to the 14,608 farms are vested in 11,792 owners, an average of approximately 124 farms to every 100 owners. Of the 11,792 owners or landlords, 10,235 possess one farm each; 1,007 own 2 each; 311, 3; 96, 4; 42, 5; 26, 6; 27, 7; 18, 8; 17, 9; 2, 10; 3, 11; 3, 13; and the remaining 5 own 12, 15, 19, 20, and 32 farms, respectively.

Of these landlords, 10,375, possessing 12,928 rented farms, reside in Maryland. The owners of 10,725 of these farms live in the counties in which their farms are located. Of the nonresident owners, 783 live in the South Atlantic states, 552 in the North Atlantic states, 55 in the North Central states, 14 in the South Central states, 9 in the Western states, and 4 in foreign countries.

FARMS CLASSIFIED BY RACE OF FARMER AND BY TENURE.

Tables 6 and 7 present the principal statistics for farms classified by race of farmer and by tenure.

TABLE 6.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY RACE OF FARMER AND BY TENURE, WITH PERCENTAGES.

RACE OF FARMER, AND TENURE.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State	46,012	112.4	5,170,075	100.0	\$204,645,407	100.0
White farmers	40,169	119.4	4,795,774	92.8	196,435,585	96.0
Colored farmers ¹	5,843	64.1	374,301	7.2	8,209,872	4.0
Owners	27,838	98.9	2,615,068	50.6	106,956,612	52.3
Part owners	1,495	105.9	158,332	3.0	6,185,489	3.0
Owners and tenants	180	145.8	26,242	0.5	896,103	0.4
Managers	1,052	195.6	205,754	4.0	13,905,084	6.8
Cash tenants	4,056	96.5	391,494	7.6	20,362,690	10.0
Share tenants	11,391	155.7	1,773,185	34.8	56,339,429	27.5

¹Including 1 Chinese.

TABLE 7.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY RACE OF FARMER AND BY TENURE.

RACE OF FARMER, AND TENURE.	AVERAGE VALUES PER FARM OF—					Per cent of gross income on total invest- ment in farm property.
	Farm property, June 1, 1900.				Gross income (products of 1899 not fed to live stock).	
	Land and im- prove- ments (except build- ings).	Build- ings.	Imple- ments and ma- chinery.	Live stock.		
The State.....	\$2,616	\$1,191	\$187	\$454	\$762	17.1
White farmers.....	2,876	1,814	206	494	832	17.0
Colored farmers ¹	880	348	57	170	280	19.9
Owners.....	2,098	1,144	183	417	701	18.2
Part owners.....	2,369	1,168	171	489	750	18.1
Owners and tenants.....	2,753	1,544	210	471	862	17.3
Managers.....	8,869	3,616	334	349	1,274	9.6
Cash tenants.....	3,513	989	150	368	697	13.9
Share tenants.....	3,060	1,163	195	638	886	17.9

¹ Including 1 Chinese.

The value of the farms owned by colored people, including implements, machinery, and live stock, is \$2,859,822; the value of the implements, machinery, and live stock on farms operated by colored managers and tenants is \$739,830. The total, \$3,599,152, is doubtless somewhat in excess of the actual wealth of the colored farmers of Maryland, as it is improbable that the colored managers and tenants own all of the machinery and live stock on the farms which they operate.

Farms operated by owners have the smallest average area, 93.9 acres, and those conducted by managers the largest, 195.6 acres. A number of the farms operated by managers are adjuncts of public institutions, while others are conducted for wealthy individuals, in connection with their summer homes. These farms are, as a rule, favorably located and highly improved, and the average values of their several forms of farm property, shown in Table 7, are much larger than those of any other class of farms grouped by tenure. The ratio which the gross income bears to the total value of farm property is, however, smaller than for any other group. This is due to the high average valuation of the farm property, and to the fact that some of these farms are not cultivated for profit.

FARMS CLASSIFIED BY AREA.

Tables 8 and 9 present the principal statistics for farms classified by area.

TABLE 8.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY AREA, WITH PERCENTAGES.

AREA.	Num- ber of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	46,012	112.4	5,170,075	100.0	\$204,645,407	100.0
Under 3 acres.....	442	2.8	1,006	(1)	717,439	0.4
3 to 9 acres.....	3,393	6.6	22,439	0.4	4,284,225	2.1
10 to 19 acres.....	4,315	13.7	59,329	1.2	7,753,748	3.8
20 to 49 acres.....	7,683	33.1	254,342	4.9	19,264,010	9.4
50 to 99 acres.....	9,307	70.8	658,883	12.7	30,971,499	15.1
100 to 174 acres.....	11,543	129.4	1,494,118	28.9	57,728,199	28.2
175 to 259 acres.....	5,389	208.9	1,125,588	21.8	38,782,035	19.0
260 to 499 acres.....	3,270	330.5	1,080,882	20.9	38,447,440	16.3
500 to 999 acres.....	591	600.4	354,853	6.9	9,248,453	4.5
1,000 acres and over.....	79	1,502.3	118,635	2.3	2,447,454	1.2

¹ Less than one-tenth of 1 per cent.

TABLE 9.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY AREA.

AREA.	AVERAGE VALUES PER FARM OF—					Per cent of gross income on total invest- ment in farm property.
	Farm property, June 1, 1900.				Gross income (products of 1899 not fed to live stock).	
	Land and im- prove- ments (except build- ings).	Build- ings.	Imple- ments and ma- chinery.	Live stock.		
The State.....	\$2,616	\$1,191	\$187	\$454	\$762	17.1
Under 3 acres.....	714	730	70	109	374	23.1
3 to 9 acres.....	555	541	60	107	215	17.1
10 to 19 acres.....	937	643	78	139	279	15.6
20 to 49 acres.....	1,398	796	103	210	393	15.7
50 to 99 acres.....	1,874	964	155	335	564	16.9
100 to 174 acres.....	2,915	1,315	226	545	926	18.5
175 to 259 acres.....	4,333	1,733	298	783	1,251	17.4
260 to 499 acres.....	6,445	2,327	374	1,033	1,706	16.7
500 to 999 acres.....	10,027	3,536	526	1,510	2,401	15.3
1,000 acres and over.....	21,151	6,913	802	2,114	3,191	10.3

The group of medium-sized farms, containing from 100 to 174 acres each, comprises a larger total acreage than any other group and represents a greater value in farm property.

Except for farms of less than 3 acres, the average values for the groups of farms given in Table 9 rise in unbroken series as the farms increase in size. For the group of farms of less than 3 acres each, the average values are relatively high, as this group includes 70 of the 121 florists' establishments of the state, and a large number of city dairies. It should be borne in mind that the incomes from these industries are determined not so much by the acreage of

land used as by the amount of capital invested and the amounts expended for labor and fertilizers.

The average gross incomes per acre for the various groups classified by area are as follows: Farms under 3 acres, \$165; 3 to 9 acres, \$33; 10 to 19 acres, \$20; 20 to 49 acres, \$12; 50 to 99 acres, \$8; 100 to 174 acres, \$7; 175 to 259 acres, \$6; 260 to 499 acres, \$5; 500 to 999 acres, \$4; 1,000 acres and over, \$2. It will be noted that the average gross income per acre decreases as the farms increase in size.

FARMS CLASSIFIED BY PRINCIPAL SOURCE OF INCOME.

In Tables 10 and 11 the farms are classified by principal source of income. If the value of the hay and grain raised on any farm exceeds that of any other crop and constitutes at least 40 per cent of the total value of products not fed to live stock, the farm is classified as a hay and grain farm. If vegetables are the leading crop, constituting 40 per cent of the value of the products, it is a vegetable farm. The farms of the other groups are classified in accordance with the same general principle. "Miscellaneous" farms are those whose operators do not derive 40 per cent of their income from any one class of farm products. Farms with no income in 1899 are classified according to the agricultural operations upon other farms in the same locality.

TABLE 10.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY PRINCIPAL SOURCE OF INCOME, WITH PERCENTAGES.

PRINCIPAL SOURCE OF INCOME.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	46,012	112.4	5,170,075	100.0	\$204,645,407	100.0
Hay and grain	10,458	170.7	1,785,521	34.5	78,076,656	38.2
Vegetables	4,718	70.4	831,970	6.4	18,228,884	8.9
Fruit	1,694	66.3	112,377	2.2	4,595,662	2.2
Live stock	11,897	80.6	953,339	18.5	92,895,694	16.1
Dairy produce	3,041	96.1	292,259	5.7	20,780,657	10.1
Tobacco	8,056	148.8	454,716	8.8	8,939,594	4.4
Sugar	15	161.4	2,421	0.1	59,648	(1)
Flowers and plants	121	7.6	924	(1)	877,098	0.4
Nursery products	15	245.7	3,685	0.1	309,468	0.2
Miscellaneous	10,997	111.7	1,227,863	23.7	39,932,166	19.5

¹ Less than one-tenth of 1 per cent.

TABLE 11.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY PRINCIPAL SOURCE OF INCOME.

PRINCIPAL SOURCE OF INCOME.	AVERAGE VALUES PER FARM OF—					Per cent of gross income on total investment in farm property.
	Farm property June 1, 1900.				Gross income (products of 1899 not fed to live stock).	
	Land and improvements (except buildings).	Buildings.	Implementations and machinery.	Live stock.		
The State.....	\$2,616	\$1,191	\$187	\$454	\$762	17.1
Hay and grain	4,678	1,777	294	717	1,186	15.9
Vegetables	2,411	1,044	169	240	821	21.3
Fruit	1,547	819	121	226	739	27.3
Live stock	1,432	850	130	353	439	15.9
Dairy produce	4,108	1,765	250	694	1,020	15.0
Tobacco	1,607	817	107	394	590	20.2
Sugar	2,293	840	327	517	757	19.0
Flowers and plants	3,766	3,200	194	89	2,909	40.1
Nursery products	16,127	3,127	496	881	9,116	44.2
Miscellaneous	2,026	1,044	170	391	627	17.3

For the several classes of farms the average values per acre of products not fed to live stock are: Flowers and plants, \$380.88; nursery products, \$37.11; vegetables, \$11.67; fruit, \$11.14; dairy produce, \$10.61; hay and grain, \$6.95; live stock, \$5.45; sugar, \$4.69; tobacco, \$3.97; and miscellaneous, \$5.61.

The wide variations shown in the average gross income and in percentage of gross income upon investment are due largely to the fact that in computing gross income no deduction is made for expenditures. For florists' establishments, nurseries, and market gardens the average expenditure for such items as labor and fertilizers represents a far larger percentage of the gross income than in the case of "hay and grain," "live stock," or "miscellaneous" farms. Were it possible to present the average net incomes, the variations shown would be comparatively slight.

FARMS CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK.

Tables 12 and 13 present data relating to farms classified by reported value of products not fed to live stock.

TABLE 12.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK, WITH PERCENTAGES.

VALUE OF PRODUCTS NOT FED TO LIVE STOCK.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	46,012	112.4	5,170,075	100.0	\$204,645,407	100.0
\$0.....	233	86.4	20,121	0.4	508,660	0.2
\$1 to \$49.....	1,160	28.1	32,554	0.6	1,057,930	0.5
\$50 to \$99.....	2,442	35.1	35,657	1.7	2,662,970	1.3
\$100 to \$249.....	8,987	50.1	449,907	8.7	13,417,950	6.6
\$250 to \$499.....	11,080	81.2	895,781	17.3	27,267,340	13.3
\$500 to \$999.....	10,934	125.7	1,374,914	26.6	48,601,470	23.8
\$1,000 to \$2,499.....	9,359	185.9	1,789,808	33.7	79,050,867	38.6
\$2,500 and over.....	1,867	306.0	571,333	11.0	82,078,720	40.1

TABLE 13.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK.

VALUE OF PRODUCTS NOT FED TO LIVE STOCK.	AVERAGE VALUES PER FARM OF—					Per cent of gross income on total investment in farm property.
	Farm property, June 1, 1900.				Gross income (products of 1899 not fed to live stock).	
	Land and improvements (except buildings).	Buildings.	Implements and machinery.	Live stock.		
The State.....	\$2,616	\$1,191	\$187	\$454	\$762	17.1
\$0.....	1,381	651	50	101	32	3.5
\$1 to \$49.....	518	308	25	60	74	6.8
\$50 to \$99.....	591	356	50	88	144	11.5
\$100 to \$249.....	800	490	59	144	257	14.5
\$250 to \$499.....	1,358	751	105	257	707	15.9
\$500 to \$999.....	2,568	1,221	195	460	1,542	18.3
\$1,000 to \$2,499.....	5,055	2,147	352	882	3,881	22.3
\$2,500 and over.....	10,951	3,893	653	1,685	3,881	22.3

There are 233 farms, ranging in area from 3 to 1,000 acres, which report no income. The comparatively high average values of the land and buildings of these farms indicate that many of them are summer homes held for pleasure and not for profit. Some, however, are farms which were partially abandoned in 1899, while others had changed owners or tenants, and the persons in charge, June 1, 1900, were unable to give definite information concerning the products of the preceding year. To this extent the reports fall short of giving a complete exhibit of farm income in 1899.

LIVE STOCK.

At the request of the various live-stock associations of the country, a new classification of domestic animals was adopted for the Twelfth Census. The age grouping for neat cattle was determined in accordance with their present and prospective relations to the dairy industry and the supply of meat products. Horses and mules are classified by age, and neat cattle and sheep by age and sex. The new classification permits a very close comparison with the figures published in previous census reports.

Table 14 presents a summary of live-stock statistics.

TABLE 14.—NUMBER OF DOMESTIC ANIMALS, FOWLS, AND BEES ON FARMS, JUNE 1, 1900, WITH TOTAL AND AVERAGE VALUES, AND NUMBER OF DOMESTIC ANIMALS NOT ON FARMS.

LIVE STOCK.	Age in years.	ON FARMS.			NOT ON FARMS.
		Number.	Value.	Average value.	
Calves.....	Under 1.....	55,465	\$458,971	\$8.18	1,164
Steers.....	1 and under 2.....	13,693	219,247	16.01	294
Steers.....	2 and under 3.....	14,068	385,354	27.39	166
Steers.....	3 and over.....	13,689	404,255	36.11	1,053
Bulls.....	1 and over.....	10,027	245,334	24.57	117
Heifers.....	1 and under 2.....	28,930	495,742	17.14	761
Cows kept for milk.....	2 and over.....	147,284	4,339,777	29.47	10,282
Cows and heifers not kept for milk.....	2 and over.....	9,490	218,441	23.02	287
Colts.....	Under 1.....	8,942	231,074	25.84	300
Horses.....	1 and under 2.....	9,938	455,204	45.80	280
Horses.....	2 and over.....	130,114	8,666,416	66.61	39,154
Mule colts.....	Under 1.....	405	15,192	37.51	4
Mules.....	1 and under 2.....	1,136	66,408	58.46	68
Mules.....	2 and over.....	15,970	1,312,922	82.21	2,151
Asses and burros.....	All ages.....	69	6,310	98.70	72
Lambs.....	Under 1.....	79,581	268,248	3.37	627
Sheep (ewes).....	1 and over.....	101,006	381,448	3.78	2,133
Sheep (rams and wethers).....	1 and over.....	10,514	46,835	4.45	215
Swine.....	All ages.....	317,902	1,329,143	4.18	41,910
Goats.....	All ages.....	1,179	4,023	3.41	384
Fowls: ¹					
Chickens ²		2,113,544			
Turkeys.....		101,782			
Geese.....		33,889			
Ducks.....		56,930			
Bees (swarms of).....		28,018	61,013	2.13	
Value of all live stock on farms.....			20,855,877		

¹The number reported is of fowls over 3 months old. The value is of all old and young.

²Including Guinea fowls.

The total value of all live stock on farms, June 1, 1900, was \$20,855,877. Of this amount 44.8 per cent represents the value of horses; 20.8 per cent, that of dairy cows; 12.1 per cent, that of other neat cattle; 6.7 per cent, that of mules and asses; 6.4 per cent, that of swine; 5.6 per cent, that of poultry; 3.3 per cent, that of sheep; and 0.3 per cent, that of all other live stock.

No reports were received concerning the value of live stock not on farms, but it is probable that such animals have higher average values than those on farms. Allowing the same averages, however, the total value of all live stock in the state, exclusive of the poultry and bees not on farms, is approximately \$24,240,000.

CHANGES IN LIVE STOCK ON FARMS.

The following table shows the changes since 1850 in the number of the most important domestic animals.

TABLE 15.—NUMBER OF SPECIFIED DOMESTIC ANIMALS ON FARMS: 1850 TO 1900.

YEAR.	Dairy cows.	Other neat cattle.	Horses.	Mules and asses.	Sheep. ¹	Swine.
1900.....	147,284	145,362	148,994	17,560	111,520	817,902
1890.....	142,198	124,991	130,395	14,161	132,329	812,020
1880.....	122,907	139,683	117,796	12,561	171,184	835,408
1870.....	94,794	120,565	89,696	9,830	129,697	257,893
1860.....	99,463	153,778	93,406	9,829	155,765	387,756
1850.....	86,856	132,780	75,681	5,644	177,902	352,911

¹Lambs not included.

In every decade except 1860 to 1870, there has been an increase in the number of dairy cows, the gain for the last

decade being 5,086, or 3.6 per cent. The number reported in 1900 is exclusive of 9,490 "cows not kept for milk" (see Table 14), many of which were doubtless milch cows dry at the time of enumeration. The number of "other neat cattle" in 1900 includes 55,465 calves. It is uncertain whether calves were reported under this head in 1890. If not, their number should be deducted when making comparisons with reports for previous years, in which case a decrease of 85,094, or 28.1 per cent, would be shown for the last decade in the number of "other neat cattle."

In many parts of the state the gradual transfer of labor and capital from general farming to horticulture and market gardening, has necessitated the introduction of new and improved machinery and consequently of more work horses. The number of horses has increased 96.9 per cent since 1850. This increase has been almost continuous, and in the last decade amounted to 14.3 per cent. Mules and asses have increased steadily in number since 1850. The census of 1900 shows 24.1 per cent more than were reported in 1890.

Sheep and swine have fluctuated in number from decade to decade, but since 1890 a decrease of 15.7 per cent is shown for sheep, and an increase of 1.9 per cent for swine.

In comparing the poultry report for 1900 (see Table 14) with that for 1890, it should be borne in mind that in 1900 the enumerators were instructed not to report fowls less than three months old, while in 1890 no such limitation was made. This fact explains to a great extent the decrease shown in the number of fowls of all kinds. Compared with the figures for 1890, the present census shows decreases in the number of fowls as follows: Chickens, 38.4 per cent; geese, 63.4 per cent; turkeys, 63.5 per cent; and ducks, 75.5 per cent.

ANIMAL PRODUCTS.

Table 16 is a summarized exhibit of the animal products of 1899.

TABLE 16.—QUANTITIES AND VALUES OF SPECIFIED ANIMAL PRODUCTS, AND VALUES OF POULTRY RAISED, ANIMALS SOLD, AND ANIMALS SLAUGHTERED ON FARMS, IN 1899.

PRODUCTS.	Unit of measure.	Quantity.	Value.
Wool.....	Pounds.....	682,119	\$142,966
Milk.....	Gallons.....	164,040,617	5,228,698
Butter.....	Pounds.....	9,098,662	
Cheese.....	Pounds.....	238,453	
Eggs.....	Dozens.....	12,511,450	
Poultry.....			1,572,682
Honey.....	Pounds.....	2,077,490	2,077,490
Wax.....	Pounds.....	308,788	38,887
Animals sold.....		7,860	2,872,560
Animals slaughtered.....			2,178,197
Total.....			18,606,450

¹Includes all milk produced.

The value of the animal products of the state in 1899 was \$18,606,450, or 31.0 per cent of the value of all farm products and 38.8 per cent of the gross farm income. Of the above amount, 38.4 per cent represents the value of dairy products; 38.4 per cent, that of animals sold and animals slaughtered on farms; 26.8 per cent, that of

poultry and eggs; and 1.4 per cent, that of wool, honey, and wax.

DAIRY PRODUCTS.

In 1899 the proprietors of 3,041 farms, or 6.6 per cent of the farms of the state, derived their principal income from dairy produce. The production of milk in 1899 was 17,439,299 gallons greater than in 1889, a gain of 37.4 per cent.

The quantity of milk sold was 20,654,446 gallons. The milk sold in 1889 was not separately reported, but since 1879 there has been a gain of 15,931,502 gallons, or 337.3 per cent, the quantity sold having greatly increased in every county except Howard, which shows a small decrease, due, doubtless, to the lack of facilities for transportation in most parts of the county.

Of the \$5,228,698 given in Table 16 as the value of all dairy products in 1899, \$1,709,854, or 32.7 per cent, represents the value of such products consumed on farms, and \$3,518,844, or 67.3 per cent, the amount derived from sales. Of the latter sum, \$2,364,319 was realized from 20,654,446 gallons of milk; \$1,069,755, from 5,828,684 pounds of butter; \$70,041, from 135,169 gallons of cream; and \$14,729, from 328,577 pounds of cheese.

In 1879, 7,485,871 pounds of butter were made on farms; in 1889, 9,999,602 pounds; and in 1899, 9,098,662 pounds. The decrease in the last decade is due chiefly to the transfer of butter making from the farm to the creamery, and to the increased demand for milk and cream in cities.

POULTRY AND EGGS.

Of the \$3,650,172 given as the value of the products of the poultry industry, 56.9 per cent represents the value of poultry raised, and 43.1 per cent the value of eggs. The total number of dozens of eggs produced in 1879 was 4,984,776; in 1889, 8,718,593; and in 1899, 12,511,450. The increase in the last decade tends to confirm the statement, made elsewhere, that the decrease in the number of chickens reported in 1900 as compared with the number reported in 1890 is only apparent, being a result of a difference in the methods of enumeration.

WOOL.

Garrett county leads in the production of wool. The production for the state was greatest in 1880, when 850,084 pounds were reported. Since that time there has been a decrease, although the production is now 16.4 per cent greater than it was in 1890.

HONEY AND WAX.

In 1889, 301,157 pounds of honey and 5,946 pounds of wax were reported, while in 1899 the production of honey was 306,788 pounds, and of wax 7,860 pounds. In both years the counties having the greatest production were Garrett, Washington, Baltimore, Frederick, and Wicomico.

HORSES AND DAIRY COWS ON SPECIFIED CLASSES OF FARMS.

Table 17 presents, for the leading groups of farms, the number of farms reporting horses and dairy cows, the

total number of these animals, and the average number per farm. In computing the averages presented, only those farms which report the kind of stock under consideration are included.

TABLE 17.—HORSES AND DAIRY COWS ON SPECIFIED CLASSES OF FARMS, JUNE 1, 1900.

CLASSES.	HORSES.			DAIRY COWS.		
	Farms reporting.	Number.	Average per farm.	Farms reporting.	Number.	Average per farm.
Total.....	41,698	148,994	3.6	36,009	147,284	4.1
White farmers.....	36,856	133,789	3.8	33,208	142,087	4.3
Colored farmers.....	4,742	10,205	2.2	2,801	5,247	1.9
Owners ¹	26,462	85,333	3.2	23,068	86,683	3.8
Managers.....	987	5,165	5.2	877	4,964	5.7
Cash tenants.....	3,463	10,822	3.1	2,692	11,490	4.3
Share tenants.....	10,686	47,674	4.5	9,372	44,147	4.7
Under 20 acres.....	5,961	9,267	1.6	4,042	7,411	1.8
20 to 99 acres.....	15,429	36,822	2.4	13,153	36,144	2.7
100 to 174 acres.....	11,041	44,814	4.0	10,209	46,976	4.6
175 to 259 acres.....	5,287	29,455	5.6	4,958	29,152	5.9
260 acres and over.....	3,880	29,126	7.6	3,647	27,601	7.6
Hay and grain.....	9,777	55,739	5.7	8,860	49,815	5.6
Vegetable.....	3,104	7,294	2.3	2,164	6,244	2.9
Fruit.....	1,407	2,637	1.9	1,271	1,550	1.2
Live stock.....	10,938	28,812	2.6	9,180	27,417	3.0
Dairy.....	2,732	10,455	3.8	3,041	26,533	8.7
Tobacco.....	2,847	11,607	4.1	2,429	5,587	2.3
Miscellaneous ²	10,788	32,450	3.0	9,124	30,138	3.3

¹ Including "part owners" and "owners and tenants."

² Including sugar farms, florists' establishments, and nurseries.

CROPS.

The following table gives the statistics of the principal crops grown in 1899.

TABLE 18.—ACREAGES, QUANTITIES, AND VALUES OF THE PRINCIPAL FARM CROPS IN 1899.

CROPS.	Acres.	Unit of measure.	Quantity.	Value.
Corn.....	658,010	Bushels.....	19,766,510	\$7,462,594
Wheat.....	634,446	Bushels.....	9,671,800	6,484,038
Oats.....	44,625	Bushels.....	1,109,560	340,475
Barley.....	1,615	Bushels.....	42,560	18,776
Rye.....	21,621	Bushels.....	279,550	141,433
Buckwheat.....	8,047	Bushels.....	115,950	56,623
Kafir corn.....	1	Bushels.....	6	3
Flaxseed.....	3	Bushels.....	50	41
Clover seed.....	—	Bushels.....	10,484	45,761
Grass seed.....	—	Bushels.....	616	1,019
Hay and forage.....	374,848	Tons.....	507,042	4,709,072
Tobacco.....	42,911	Pounds.....	24,589,480	1,438,169
Hops.....	(¹)	Pounds.....	230	21
Broom corn.....	98	Pounds.....	85,910	1,658
Peanuts.....	7	Bushels.....	143	137
Dry beans.....	606	Bushels.....	4,754	7,038
Dry pease.....	947	Bushels.....	12,459	12,725
Potatoes.....	26,472	Bushels.....	1,991,377	1,020,008
Sweet potatoes.....	6,469	Bushels.....	677,848	817,462
Onions.....	503	Bushels.....	56,148	33,308
Miscellaneous vegetables.....	99,900	—	—	3,944,959
Maple sugar.....	—	Pounds.....	294,130	20,561
Maple sirup.....	—	Gallons.....	5,825	8,622
Sorghum cane.....	63	Tons.....	291	314
Sorghum sirup.....	—	Gallons.....	4,058	1,559
Small fruits.....	17,516	—	—	1,181,064
Grapes.....	8,775	—	—	448,282
Orchard fruits.....	391,073	Centals.....	16,859	1,266,047
Tropical fruits.....	—	—	—	2
Nuts.....	—	—	—	2,055
Forest products.....	—	—	—	1,170,382
Flowers and plants.....	174	—	—	355,882
Seeds.....	54	—	—	7,183
Nursery products.....	1,275	—	—	123,474
Willows.....	23	Pounds.....	284,000	2,888
Miscellaneous.....	—	—	—	1,889
Total.....	2,031,976	—	—	30,216,909

¹ Less than 1 acre.

² Sold as cane.

³ Estimated from number of vines or trees.

⁴ Including value of raisins, wine, etc.

⁵ Including value of cider, vinegar, etc.

Of the total value of crops, cereals contributed 48.0 per cent; vegetables, including potatoes, sweet potatoes, and onions, 17.6 per cent; hay and forage, 15.6 per cent; fruits and nuts, 8.2 per cent; tobacco, 4.8 per cent; and all other products, 5.8 per cent.

The average values per acre of the various crops are as follows: Flowers and plants, \$2,045; nursery products, \$97; small fruits, \$67; onions, \$56; sweet potatoes, \$49; miscellaneous vegetables, \$39; potatoes, \$39; tobacco, \$34; orchard fruits, \$14; hay and forage, \$13; and cereals, \$11. The crops yielding the highest average returns per acre were grown upon very highly improved land. Their production requires a relatively great amount of labor, and large expenditures for fertilizers.

CEREALS.

The following table is an exhibit of the changes in cereal production since 1849.

TABLE 19.—ACREAGE AND PRODUCTION OF CEREALS: 1849 TO 1899.

PART 1.—ACREAGE.

YEAR. ¹	Barley.	Buckwheat.	Corn.	Oats.	Rye.	Wheat.
1899.....	1,515	8,047	658,010	44,625	21,621	634,446
1889.....	818	7,569	586,817	99,195	34,302	510,727
1879.....	226	10,294	664,328	101,127	32,405	559,236

¹ No statistics of acreage were secured prior to 1879.

PART 2.—BUSHELS PRODUCED.

1899.....	42,560	115,950	19,766,510	1,109,560	279,550	9,671,800
1889.....	18,778	96,747	14,028,142	2,019,658	352,596	8,348,177
1879.....	6,097	136,687	15,968,533	1,794,872	288,067	8,004,864
1869.....	11,815	77,367	11,701,817	3,221,643	307,039	5,774,503
1859.....	17,350	212,338	13,444,922	3,959,298	518,901	6,103,480
1849.....	745	103,671	10,749,858	2,242,161	226,014	4,404,680

The total area devoted to cereals in 1879 was 1,378,276 acres; in 1889, 1,239,428 acres; and in 1899, 1,368,264 acres. There was a gain in the last decade of 10.4 per cent, and a loss in the last twenty years of 0.7 per cent. Of the total area in cereals in 1899, 48.1 per cent was devoted to corn, 46.4 per cent to wheat, 3.2 per cent to oats, 1.6 per cent to rye, 0.6 per cent to buckwheat, and 0.1 per cent to barley.

The principal cereal crops are corn and wheat, which are grown throughout the state. Corn was raised on 41,249 farms, or 89.6 per cent of the total number; wheat on 26,312 farms, or 57.2 per cent of the total. The acreage in each of these cereals increased during the last decade in every county except Calvert, which showed a slight decrease in wheat. Frederick county reported the largest acreage and production of both wheat and corn.

Most of the barley and rye is raised in Carroll, Frederick, Baltimore, and Montgomery counties. The total acreage in barley increased 85.2 per cent in the last decade, 99.4 per cent of the gain being in the four counties named. The total acreage in rye shows a loss of 37.0 per cent, decreases being shown by nearly all counties.

An increase since 1890 of 6.3 per cent in the acreage in buckwheat, and a decrease of 55.0 per cent in the acreage

in oats, are shown. Garrett county leads in the production of these cereals, having reported 64.3 per cent of the acreage devoted to buckwheat, and 23.2 per cent of the acreage in oats.

The 658,010 acres given in Table 19 as the area devoted to corn in 1899 is exclusive of 100,409 acres of corn, non-saccharine sorghum, and similar crops grown for forage or ensilage.

ORCHARD FRUITS.

The changes in orchard fruits since 1890 are shown in the following table:

TABLE 20.—ORCHARD TREES AND FRUITS: 1890 AND 1900.

FRUITS.	NUMBER OF TREES.		BUSHELS OF FRUIT.	
	1890.	1890.	1899.	1899.
Apples	1,824,183	1,297,289	3,150,673	1,410,413
Apricots	2,010	912	313	101
Cherries	70,014	34,541	60,452	12,575
Peaches	4,017,854	6,113,287	172,303	808,019
Pears	690,433	274,543	301,702	60,292
Plums and prunes	100,695	18,865	19,945	2,359

The most noteworthy changes between 1890 and 1900 are an increase of 40.6 per cent in the number of apple trees and a decrease of 34.3 per cent in the number of peach trees. In 1890, 16.8 per cent of all fruit trees in the state were apple trees, and 79.0 per cent were peach trees, while in 1900 the corresponding percentages were 27.2 and 59.9. The number of apple trees increased in every county except Kent, the largest relative increases being in Baltimore city and in Wicomico, Charles, Washington, and Garrett counties.

The largest numbers of peach trees are grown in Washington, Caroline, Queen Anne, Kent, and Anne Arundel counties. These counties reported in 1899, 70.8 per cent of all the peach trees in the state. The production of peaches for the state was only 172,303 bushels from 4,017,854 trees, the frosts of 1899 having almost wholly destroyed the crop. Kent and Queen Anne counties reported 1,995,612 fewer trees than in 1889.

Every county shows a large increase in the number of pear trees. In Baltimore city there has been a large decrease. Kent, Queen Anne, Baltimore, Anne Arundel, Cecil, Caroline, and Prince George are the leading pear-growing counties, and report the largest gains for the decade.

The gain in the number of cherry trees, 102.7 per cent, was widely distributed, being everywhere apparent except in Kent, St. Mary, Worcester, Dorchester, and in Baltimore city. The number of plum and prune trees increased 626.8 per cent, Talbot being the only county to report a decrease.

In addition to the number of trees shown in Table 20, unclassified orchard trees to the number of 7,305 were reported, with a yield of 5,278 bushels of fruit. The value of orchard products given in Table 18 includes the value of 42,539 barrels of cider, 12,655 barrels of vinegar, and 89,770 pounds of dried and evaporated fruits.

GRAPES.

Grapes were grown by 6,592 farmers, who obtained, in 1899, 16,859 centals of fruit from 387,492 vines. The total value of grapes grown, including the value of 15,524 gallons of wine and 440 pounds of raisins made on farms, was \$43,282. Washington, Frederick, and Baltimore counties lead in the cultivation of grapes, reporting in 1900 about one-half of the vines of the state.

VEGETABLES AND SMALL FRUITS.

The value of the vegetables grown in 1899, including potatoes, sweet potatoes, and onions, was \$5,315,732, or 15.2 per cent of the gross farm income. Of the total value, 19.2 per cent represents that of potatoes, and 6.0 per cent that of sweet potatoes. Aside from the land devoted to potatoes, sweet potatoes, and onions, 99,900 acres were used in the growing of miscellaneous vegetables. The products of 16,386 acres of this area were not reported in detail; of the remaining area, 43,612 acres were devoted to tomatoes, 16,575 to sweet corn, 7,903 to pease, 4,854 to cabbages, 4,348 to watermelons, 3,461 to muskmelons, 1,090 to beans, and 1,671 to other vegetables.

The total area devoted to the cultivation of small fruits in 1899 was 17,516 acres, distributed among 8,833 farms. The value of the fruits grown was \$1,181,054, an average of \$134 per farm. Of the total area, 13,980 acres, or 79.8 per cent, were devoted to strawberries. The total production of strawberries for the state was 24,035,640 quarts, of which nearly one-third was reported by Anne Arundel county. Other leading counties in the cultivation of this fruit are Somerset, Wicomico, Caroline, Worcester, and Baltimore. In southern Maryland, east of the bay, the soil and climate are especially well adapted to the raising of small fruits, and, as transportation facilities increase, the industry is being rapidly extended. The acreage and production of other berries were as follows: Blackberries and dewberries, 1,501 acres and 1,713,680 quarts; raspberries and Logan berries, 1,384 acres and 1,450,250 quarts; gooseberries, 234 acres and 332,140 quarts; currants, 65 acres and 63,460 quarts; and other berries, 352 acres and 362,420 quarts.

FLORICULTURE.

The florists of Maryland number 121, most of them being located in or near Baltimore. They had invested in the aggregate, \$877,098, of which \$455,635 represents the value of land, and improvements other than buildings; \$387,178, that of buildings; \$23,495, that of implements and machinery; and \$10,790, that of live stock. The value of their products, in 1899, was \$354,490, of which \$334,310 represented the value of flowers and plants, and \$20,180 that of other products. During 1899 the florists expended \$78,363 for labor and \$4,936 for fertilizers.

A large amount of glass was used by both florists and truck gardeners in Anne Arundel and Baltimore counties and in Baltimore city, there being 2,184,390 square feet of land under glass, reported by 1,044 proprietors. The 121 florists used 1,510,844 square feet of glass surface, or 1,133,133 square feet of land under glass.

NURSERIES.

The 15 nurseries in the state had \$288,800 invested in land, buildings, and improvements; \$7,450 in implements and machinery; and 13,218 in live stock. In 1899 their products were valued at \$142,877, of which \$114,512 represented nursery stock, and \$28,365, other products. The expenditure for labor was \$30,695, and for fertilizers \$4,755. The total area reported by nurserymen was 3,685 acres, the average gross income being \$37.11 per acre.

LABOR AND FERTILIZERS.

The total expenditure for labor on farms in 1899, including the value of board furnished, was \$5,715,520, an average of \$124 per farm. The average was highest on the most intensively cultivated farms, being \$2,046 for nurseries, \$648 for florists' establishments, \$216 for hay and

grain farms, \$174 for dairy farms, \$147 for vegetable farms, \$137 for fruit farms, \$92 for sugar farms, \$73 for tobacco farms, \$58 for live-stock farms, and \$89 for miscellaneous farms. "Managers" expended, on an average, \$420; "share tenants," \$131; "cash tenants," \$113; and "owners," \$112. White farmers expended \$188 per farm, and colored farmers \$26.

Fertilizers purchased in 1899 cost \$2,618,890, an average of \$57 per farm and an increase since 1890 of 8.2 per cent. The average expenditure was greatest for nurseries, amounting to \$317. For hay and grain farms the average was \$93; for vegetable farms, \$89; for fruit farms, \$64; for dairy farms, \$50; for miscellaneous farms, \$46; for sugar farms, \$44; for florists' establishments, \$41; for tobacco farms, \$36; and for live-stock farms, \$29.

CENSUS BULLETIN.

No. 152.

WASHINGTON, D. C.

March 17, 1902.

MANUFACTURES.

MISSOURI.

Hon. WILLIAM R. MERRIAM,

Director of the Census.

SIR: I transmit herewith, for publication in bulletin form, the statistics of manufacturing and mechanical industries for the state of Missouri for the census year 1900, taken in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that "The schedules of inquiries relating to the products of manufacturing and mechanical establishments shall embrace the name and location of each establishment; character of organization, whether individual, cooperative, or other form; date of commencement of operations; character of business or kind of goods manufactured; amount of capital invested; number of proprietors, firm members, copartners, or officers, and the amount of their salaries; number of employees, and the amount of their wages; quantity and cost of materials used in manufactures; amount of miscellaneous expenses; quantity and value of products; time in operation during the census year; character and quantity of power used; and character and number of machines employed."

In each of the above particulars the requirements of the law have been observed, but certain of the data thus elicited are reserved for publication in the final volumes.

There were 25 cities in the state withdrawn from the enumerators and their manufacturing statistics collected by special agents, in accordance with the further provision of section 7 of the census act. Wherever the phrase "urban manufactures" is used in this bulletin, it applies only to those cities which were withdrawn from the enumerators and committed to special agents, and only to manufacturing establishments within the corporate limits of such places.

Five cities in Missouri contain a population exceeding 20,000 each: Joplin, Kansas City, St. Joseph, St. Louis, and Springfield. The manufacturing statistics of these 5 cities are presented by specified industries, and the statistics of Kansas City, St. Joseph, St. Louis, and Springfield are presented in comparison with the returns of the Eleventh Census. The statistics of Joplin were not shown

separately in 1890, and comparisons with that year are, therefore, not possible in this case.

Mr. J. S. Higgins, of St. Louis, rendered valuable assistance in the preparation of the text for the accompanying report.

The statistics of Missouri are presented in 9 tables: Table 1 showing comparative figures for the state at the several censuses; Table 2 showing all the industries of the state divided between hand trades and the manufactures proper, and also the statistics of a governmental establishment, educational and penal institutions, and establishments with a product of less than \$500, which three latter classes were not reported at previous censuses; Table 3 showing the statistics of the 14 leading industries of the state for 1890 and 1900; Table 4 showing the totals for the cities of Kansas City, St. Joseph, St. Louis, and Springfield at the censuses of 1890 and 1900; Table 5 showing the urban manufactures of the state in comparison with the totals for the entire state and the state exclusive of the cities withdrawn from the enumerators; Table 6 showing the statistics for the state by counties; Table 7 showing the statistics for the state by specified industries; Table 8 showing the statistics for the cities of Joplin, Kansas City, St. Joseph, St. Louis, and Springfield by specified industries; and Table 9 showing the totals for all industries in each of the cities withdrawn from the enumerators (exclusive of those shown in Table 8).

Table 1 shows the growth of manufactures in Missouri for the half century which terminates with the Twelfth Census. The manufacturing statistics of the censuses prior to 1850 were too imperfect and fragmentary in character to make it proper to reproduce them in such a table as a measure of industrial growth in the first half of the century. Owing to changes in the method of taking the census, comparisons between the earlier and later decades, represented in Table 1, should be drawn only in the most general way. Nevertheless, the rate of growth in Missouri manufactures may be fairly inferred from the figures given.

In drafting the schedules of inquiry for the census of

1900 care was taken to preserve the basis of comparison with prior censuses. Comparison may be made safely with respect to all the items of inquiry except those relating to capital, salaried officials, clerks, etc., and their salaries, the average number of employees, and the total amount of wages paid. Live capital, that is, cash on hand, bills receivable, unsettled ledger accounts, raw materials, stock in process of manufacture, finished products on hand, and other sundries, was first called for at the census of 1890. No definite attempt was made, prior to the census of 1890, to secure a return of live capital invested.

Changes were made in the inquiries relating to employees and wages in order to eliminate defects found to exist on the form of inquiry adopted in 1890. At the census of 1890 the average number of persons employed during the entire year was called for, and also the average number employed at stated weekly rates of pay, and the average number was computed for the actual time the establishments were reported as being in operation. At the census of 1900 the greatest and least numbers of employees were reported, and also the average number employed during each month of the year. The average number of wage-earners (men, women, and children) employed during the entire year was ascertained by using 12, the number of calendar months, as a divisor into the total of the average numbers reported for each month. This difference in the method of ascertaining the average number of wage-earners during the entire year may have resulted in a variation in the number, and should be considered in making comparisons.

At the census of 1890 the number and salaries of proprietors and firm members actively engaged in the business or in supervision were reported, combined with clerks and other officials. In cases where proprietors and firm members were reported without salaries, the amount that would ordinarily be paid for similar services was estimated. At the census of 1900 only the number of proprietors and firm members actively engaged in the industry or in supervision was ascertained, and no salaries were reported for this class. It is therefore impossible to compare the number and salaries of salaried officials of any character for the two censuses.

Furthermore, the schedules for 1890 included in the wage-earning class, overseers, foremen, and superintendents (not general superintendents or managers), while the census of 1900 separates from the wage-earning class such salaried employees as general superintendents, clerks, and salesmen. It is possible and probable that this change in the form of the question has resulted in eliminating from the wage-earners, as reported by the present census, many high-salaried employees included in that group for the census of 1890.

In some instances, the number of proprietors and firm members, shown in the accompanying tables, falls short of the number of establishments reported. This is accounted for by the fact that no proprietors or firm members are reported for corporations or cooperative establishments.

The reports show a capital of \$249,888,581 invested in manufactures and mechanical industries in the 18,754 establishments reporting for the state of Missouri. This sum represents the value of land, buildings, machinery, tools, and implements, and the live capital utilized, but does not include the capital stock of any of the manufacturing corporations of the state. The value of the products is returned at \$385,492,784, to produce which involved an outlay of \$14,569,606 for salaries of officials, clerks, etc.; \$60,719,428 for wages; \$41,396,905 for miscellaneous expenses, including rent, taxes, etc.; and \$214,988,018 for materials used, mill supplies, freight, and fuel. It is not to be assumed, however, that the difference between the aggregate of these sums and the value of the products is, in any sense, indicative of the profits in the manufacture of the products during the census year. The census schedule takes no cognizance of the cost of selling manufactured articles, or of interest on capital invested, or of the mercantile losses incurred in the business, or of depreciation in plant. The value of the product given is the value as obtained or fixed at the shop or factory. This statement is necessary in order to avoid erroneous conclusions from the figures presented.

The value of products for the state of Missouri, \$385,492,784, is the gross value, and not the net or true value. The difference between these two should be carefully noted. The gross value is found by adding the value of products in the separate establishments. But the finished product of one establishment is often the raw material for another. In such cases the value of the former reappears in the latter, and thus the original cost of certain materials may be included several times in the gross value. The net or true value is found by subtracting from the gross value the value of all materials purchased in a partly manufactured form. In this way the duplications in the gross value are eliminated.

At the census of 1890 the schedule was so framed that it was impossible to find the net or true value. In the present census the schedule asked for the value of the materials in two classes, those purchased in the crude state and those purchased in the partly manufactured form. From the answers to these questions the net or true value of products may be computed. Thus, for Missouri, the gross value of products for 1900 was \$385,492,784. The value of materials purchased in a partly manufactured form was \$128,820,943. The difference, \$256,671,841, is the net or true value of products, and represents the increase in the value of raw materials resulting from the various processes of manufacture.

Very respectfully,



Chief Statistician for Manufactures.

MISSOURI.

Table 1 shows the manufacturing and mechanical industries of the state of Missouri as returned at the censuses of 1850 to 1900, inclusive, with the percentages of increase for each decade. This table also presents the average number of wage-earners employed by manufacturing estab-

lishments, in comparison with the total population of the state, and the value of the land and buildings owned and reported by manufacturers as capital, in comparison with the assessed value of all real estate and improvements.

TABLE 1.—COMPARATIVE SUMMARY, 1850 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.						PER CENT OF INCREASE.				
	1900	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	18,754	14,052	8,592	11,871	3,167	2,928	33.5	63.5	127.6	27.6	8.0
Capital	\$249,888,581	\$189,558,546	\$72,507,844	\$80,257,244	\$20,084,220	\$8,576,607	31.8	161.4	19.7	300.6	138.6
Salaries of officials, clerks, etc., number	13,900	18,086	(b)	(b)	(b)	(b)	126.6				
Salaries	\$14,669,606	\$16,778,985	(b)	(b)	(b)	(b)	113.1				
Wage-earners, average number	184,976	124,208	63,995	65,354	19,681	16,808	8.7	94.1	12.1	232.1	24.5
Total wages	\$60,719,428	\$59,643,429	\$24,809,716	\$31,055,445	\$6,669,716	\$4,692,648	1.8	145.8	121.7	365.6	42.1
Men, 16 years and over	106,782	102,418	54,200	55,904	18,628	14,880	4.3	89.0	18.0	200.1	25.2
Wages	\$58,921,296	\$54,527,944	(b)	(b)	(b)	(b)	11.1				
Women, 16 years and over	23,683	18,294	5,474	3,884	1,053	928	29.5	234.2	40.9	268.9	18.5
Wages	\$6,041,960	\$4,603,128	(b)	(b)	(b)	(b)	31.3				
Children, under 16 years	4,510	3,491	4,321	5,566	(b)	(b)	29.2	119.2	122.4		
Wages	\$756,172	\$512,357	(b)	(b)	(b)	(b)	47.6				
Miscellaneous expenses	\$41,396,905	\$22,885,565	(b)	(b)	(b)	(b)	80.9				
Cost of materials used	\$214,988,018	\$177,582,382	\$110,798,392	\$115,533,269	\$23,849,941	\$12,798,351	21.1	60.3	14.1	331.4	86.4
Value of products, including custom work and repairing	\$385,492,784	\$324,561,993	\$165,386,205	\$206,213,429	\$41,782,731	\$24,324,418	18.8	96.2	119.8	303.5	71.8
Total population	3,106,665	2,679,184	2,168,380	1,721,295	1,182,012	682,044	16.0	23.6	26.0	45.6	73.8
Wage-earners engaged in manufactures	184,976	124,208	63,995	65,354	19,681	15,808	8.7	94.1	12.1	232.1	24.5
Per cent of total population	4.3	4.6	3.0	3.8	1.7	2.3					
Assessed value of real estate	\$1,001,766,464	\$599,359,381	\$381,985,112	\$418,527,535	\$153,450,577	\$66,302,228	67.0	57.0	18.7	172.7	129.7
Value of land and buildings invested in manufactures ⁶	\$63,506,339	\$46,579,111	(b)	(b)	(b)	(b)	36.3				
Per cent of assessed value	6.3	7.8									

¹ Decrease.

² Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 7.)

³ Not reported separately.

⁴ Not reported.

⁵ As given for the year 1900 in Dana's supplement, "State and City," to the Commercial and Financial Chronicle, under date of April 13, 1901.

⁶ Does not include value of rented property.

Table 1 shows that there has been a large growth in the manufacturing and mechanical industries of Missouri during the half century. The population during these years increased from 682,044 to 3,106,665, while the average number of wage-earners employed in manufacturing establishments increased from 15,808 to 184,975, embracing, in 1900, 4.3 per cent of the entire population, compared with 2.3 per cent in 1850. Probably the best indication of the importance of the wage-earning class is afforded by the greatest number employed at any one time during the year. In 1900 this was 186,631, or 6 per cent of the total population of the state. Both the greatest percentage of increase in the value of products, 393.5, and the greatest absolute increase, \$164,430,698, are shown for the decade ending with 1870. Missouri occupies a most favored position in the Mississippi and Missouri valleys and is richly endowed with natural resources, in-

cluding an abundance of coal, large deposits of minerals, and extensive timber areas. The mineral belt, called the Ozarks, from the Ozark Mountains, is in the southern and southwestern parts of the state, and its products are noted for variety and purity. They include lead, nickel and cobalt, iron ore, zinc, barytes, granite, marble, limestone, glass or silica sand, and kaolin and other clays. The state has extensive facilities for distributing its products by both rail and water.

Table 2 divides the industries of the state between the hand trades and the manufactures proper. This table also gives the statistics for a governmental establishment, educational and penal institutions, and establishments with a product of less than \$500; these were not reported at previous censuses, and therefore are omitted from the other tables and their use confined to Table 2.

TABLE 2.—SUMMARY FOR ALL ESTABLISHMENTS.

CLASSES.	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	COST OF MATERIALS USED.				Value of products, including custom work and repairing.
				Average number.	Total wages.		Total.	Purchased in raw state.	Purchased in partially manufactured form.	Fuel, freight, etc.	
Total	23,950	\$251,343,381	26,332	136,763	\$60,792,178	\$41,499,635	\$215,388,791	\$79,754,117	\$129,149,688	\$6,479,991	\$386,737,134
Hand trades ¹	8,599	12,961,322	9,747	22,036	11,286,344	7,248,378	19,169,641	710,770	18,069,146	389,725	49,982,849
Governmental establishment	1	700		3	2,210	300	510		510		3,015
Educational and penal institutions	4	18,900		109			7,971		6,820	1,151	18,541
Establishments with a product of less than \$500	5,191	1,435,200	5,673	1,676	70,535	102,430	837,292	62,789	321,410	3,143	1,222,794
All other establishments	10,155	236,927,259	10,912	112,939	49,483,084	34,153,527	195,818,377	78,980,608	110,751,797	6,085,972	835,560,435

¹Includes bicycle and tricycle repairing, 96; blacksmithing and wheelwrighting, 2,380; boots and shoes, custom work and repairing, 785; carpentering, 1,104; clothing, men's, custom work and repairing, 745; clothing, women's, dressmaking, 314; dyeing and cleaning, 76; furniture, cabinetmaking, repairing, and upholstering, 204; lock and gun smithing, 105; masonry, brick and stone, 378; millinery, custom work, 695; painting, house, sign, etc., 562; paper hanging, 130; plastering and stuccowork, 171; plumbing, and gas and steam fitting, 358; sewing machine repairing, 19; taxidermy, 2; typewriter repairing, 13; watch, clock, and jewelry repairing, 462.

Of the 23,950 establishments of all classes shown in this table, 13,790, or 57.6 per cent, were small shops included in the groups of "hand trades" and "establishments with a product of less than \$500." The value of the products of these establishments, consisting principally of the sums received for custom work and repairing,

amounted to \$51,155,143, or only 13.2 per cent of the total value of the products of the state.

In addition to the 23,950 active establishments in the state during the census year, with a capital of \$251,343,381, shown in Table 2, there were 107 idle establishments, with a capital of \$2,156,423, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Ammunition	1	\$92,000	Liquors, distilled	6	\$296,820
Brick and tile	16	220,859	Lumber and timber products	18	25,654
Cooperage	2	48,580	Lumber, planing mill products, including sash, doors, and blinds	5	90,481
Flouring and grist mill products	16	97,755	Pottery, terra cotta, and fire-clay products	2	10,000
Foundry and machine shop products	2	22,826	Slaughtering, wholesale, not including meat packing	1	185,000
Fruits and vegetables, canning and preserving	3	41,890	Tinsmithing, coppersmithing, and sheet-iron working	2	87,000
Furniture, factory product	2	10,935	Woolen goods	1	11,250
Ice, manufactured	1	82,500	All other industries	25	42,870
Iron and steel	2	180,003			
Iron and steel, nails and spikes, cut and wrought, including wire nails	1	285,000			
Lead, smelting and refining	1	386,500			

TABLE 3.—COMPARATIVE SUMMARY OF FOURTEEN LEADING INDUSTRIES.

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Total for selected industries for state	1900	5,189	\$113,326,395	59,057	\$26,401,101	\$25,871,034	\$122,972,261	\$203,494,824
	1890	3,667	85,918,067	50,674	23,144,690	13,239,315	93,055,297	155,920,549
Increase, 1890 to 1900		1,472	27,408,328	8,383	3,256,411	12,631,719	29,916,964	47,574,275
Per cent of increase		40.1	31.9	16.5	14.1	95.4	32.1	30.5
Per cent of total of all industries in state	1900	27.4	45.4	48.8	49.5	62.5	57.2	52.8
	1890	28.1	45.3	40.8	38.8	57.8	52.4	48.0
Boots and shoes, factory product	1900	50	4,183,979	5,915	2,052,114	643,942	7,998,026	11,253,202
	1890	29	3,712,915	2,716	1,119,390	805,192	2,521,027	4,841,004
Carriages and wagons	1900	377	4,019,087	2,533	1,310,560	251,744	2,733,960	5,583,864
	1890	425	3,963,675	3,026	1,499,133	232,244	2,441,925	5,233,824
Cars and general shop construction and repairs by steam railroad companies.	1900	48	3,645,200	5,581	3,182,753	102,500	3,019,574	6,524,121
	1890	27	1,394,974	2,859	1,737,771	1,637	2,082,326	3,890,542
Cars, steam railroad, not including operations of railroad companies.	1900	4	4,530,982	2,772	1,373,353	198,160	5,101,335	7,722,768
	1890	5	1,442,927	1,854	1,147,604	75,773	2,655,320	3,974,173
Clothing, men's, factory product	1900	148	4,651,882	6,129	1,693,725	635,073	5,095,150	8,925,088
	1890	59	4,066,073	6,113	1,772,799	369,911	4,566,017	8,113,852
Coffee and spice, roasting and grinding	1900	27	2,517,482	490	176,420	212,681	4,303,097	5,286,264
	1890	15	1,089,038	252	113,551	82,406	3,290,476	3,892,792
Confectionery	1900	99	2,842,164	2,058	662,513	439,566	3,476,112	5,554,834
	1890	76	1,440,173	1,454	520,767	149,497	2,120,762	3,584,953
Flouring and grist mill products	1900	1,145	11,402,827	1,654	851,377	520,468	21,937,507	26,393,928
	1890	710	12,630,645	3,011	1,249,091	966,124	20,210,639	34,486,795
Foundry and machine shop products	1900	261	11,606,445	7,084	3,882,749	316,851	6,732,008	15,073,005
	1890	186	11,708,878	6,754	3,807,974	991,125	5,819,009	18,680,778

TABLE 3.—COMPARATIVE SUMMARY OF FOURTEEN LEADING INDUSTRIES—Continued.

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Liquors, malt.....	1900 1890	49 30	\$25,731,930 16,689,675	3,150 2,834	\$1,890,100 1,847,195	\$6,137,846 3,114,676	\$3,073,011 6,563,586	\$13,776,905 16,954,137
Lumber and timber products.....	1900 1890	1,197 830	11,089,799 8,245,425	6,048 6,703	2,012,659 1,930,504	321,300 391,926	6,410,216 4,328,903	11,177,529 8,359,925
Printing and publishing:								
Total.....	1900 1890	1,100 778	11,149,288 8,052,275	7,256 7,423	3,774,832 4,050,989	2,187,852 1,439,861	4,706,237 3,503,733	15,355,949 13,004,440
Book and job.....	1900 1890	283 176	4,686,838 3,441,735	3,496 3,066	1,717,664 1,537,302	780,325 391,890	2,500,782 1,785,161	6,095,752 5,039,953
Music.....	1900 1890	3 6	4,650 32,000	2 19	1,020 10,916	2,137 4,161	720 10,444	6,100 43,600
Newspapers and periodicals.....	1900 1890	814 596	6,507,800 4,578,490	3,758 4,338	2,056,148 2,502,271	1,385,340 1,043,820	2,204,785 1,708,123	9,254,097 7,920,337
Slaughtering:								
Total.....	1900 1890	37 68	7,944,033 4,386,780	3,102 1,264	1,440,742 646,322	364,267 336,743	39,103,137 15,142,352	43,040,885 13,320,193
Slaughtering and meat packing, wholesale.....	1900 1890	31 41	7,844,054 4,611,745	3,043 1,128	1,416,680 557,378	350,599 338,103	38,391,243 12,439,412	42,223,127 14,739,012
Slaughtering, wholesale, not including meat packing.....	1900 1890	6 27	99,979 375,035	59 136	24,062 87,444	13,668 18,635	716,894 2,702,940	811,753 3,531,181
Tobacco:								
Total.....	1900 1890	602 430	3,011,237 5,594,664	5,281 4,411	2,097,204 1,702,600	12,908,784 4,732,193	9,232,341 8,309,272	27,847,432 17,533,646
Chewing, smoking, and snuff.....	1900 1890	22 26	7,020,479 4,533,925	3,720 3,117	1,402,549 1,117,610	12,511,008 4,456,979	8,255,357 8,030,739	25,101,446 15,423,764
Cigars and cigarettes.....	1900 1890	580 404	309,758 1,060,739	1,511 1,294	694,655 534,990	397,776 275,219	1,026,984 773,432	2,745,936 2,154,832

The 14 leading industries of the state in 1900, as shown in Table 3, embraced 5,139 establishments, or 27.4 per cent of the total number in the state; used a capital of \$113,326,395, or 45.4 per cent of the total; gave employment to 59,057 wage-earners, or 43.8 per cent of the total number; and paid \$26,401,101, or 43.5 per cent of the total wages. The value of their products was \$203,494,824, or 52.8 per cent of the total. In the discussion of Table 3, which follows, these industries are ranked with reference to the value of their products.

Table 3 shows that slaughtering and meat packing is the most important industry in the state. The 37 establishments reported in 1900 gave employment to 3,102 wage-earners, or 2.3 per cent of the wage-earners employed in the state, and the products were valued at \$43,040,885, or 11.2 per cent of the total value of the products of the state. In 1890 there were 68 establishments, 1,264 wage-earners, and products valued at \$13,320,193. The increase in the value of products during the decade was \$24,720,692, or 134.9 per cent. This is a greater percentage of increase than is shown for any other selected industry in the state. St. Joseph and St. Louis are principal centers, in the order named. Missouri has profited by the trend of the industry toward the corn states and the great cattle ranges.

The manufacture of tobacco ranks second among the industries of the state, with 602 establishments, 5,231 wage-earners, and products valued at \$27,847,432. In 1890 there were 430 establishments, 4,411 wage-earners, and products valued at \$17,533,646. The increase in the value of products during the decade was \$10,263,786, or 58.4 per cent. Missouri is not one of the great tobacco-growing states, although it raised 9,370,000 pounds in

1898,¹ but it has become a great center for the manufacture of chewing and smoking tobacco and snuff.

There were 1,145 establishments engaged in 1900 in the manufacture of flouring and grist mill products, the industry third in rank, with 1,654 wage-earners, and products valued at \$26,393,928. In 1890 there were 710 establishments, 3,011 wage-earners, and products valued at \$34,486,795. The decrease in the value of products during the decade was \$8,092,867, or 23.5 per cent. Although this industry shows a decline, it is still important. In the state, exclusive of St. Louis, there was a slight increase. The decrease in St. Louis is accredited to the opening up of less developed country to the west and southwest by railway facilities, which connect the great grain-producing centers with the markets by shorter freight lines. One milling firm in St. Louis, which, prior to 1890, shipped annually 150,000 barrels of flour to Texas, now manufactures 1,200 barrels daily in that state. In other instances also the manufacture of flouring and grist mill products is carried on either near the markets or the grain centers.

There were 1,100 establishments engaged in printing and publishing in 1900, with 7,256 wage-earners, and products valued at \$15,355,949. In 1890 there were 778 establishments, 7,423 wage-earners, and products valued at \$13,004,440. The increase in the value of products during the decade was \$2,351,509, or 18.1 per cent.

There were 261 establishments engaged in the manufacture of foundry and machine shop products in 1900, with

¹Report of the Missouri State Board of Agriculture, 1899, page 6.

7,084 wage-earners, and products valued at \$15,073,005. In 1890 there were 186 establishments, 6,754 wage-earners, and products valued at \$13,680,773. The increase in the value of products during the decade was \$1,392,232, or 10.2 per cent.

There were 49 establishments engaged in the manufacture of malt liquors in 1900, with 3,150 wage-earners, and products valued at \$13,776,905. In 1890 there were 30 establishments, 2,834 wage-earners, and products valued at \$16,954,137. The decrease in the value of products during the decade was \$3,177,232, or 18.7 per cent. Although the value of products decreased from the value reported in 1890, there was an increase in the quantity of products and in the number of establishments, capital, number of wage-earners, and wages paid. There are a number of notable malt liquor establishments in the state, particularly at St. Louis.

There were 50 establishments engaged in the factory manufacture of boots and shoes in 1900, with 5,915 wage-earners, and products valued at \$11,253,202. In 1890 there were 29 establishments, 2,716 wage-earners, and products valued at \$4,841,004. The increase in the value of products during the decade was \$6,412,198, or 132.5 per cent. Although this is a comparatively new industry in the West, Missouri has made a rapid advance. Only one other manufacture in the state exceeds this in percentage of increase in value of products. Missouri is now eighth in rank in the United States in the factory manufacture of boots and shoes; it was ninth in 1890.

There were 1,197 establishments engaged in the manufacture of lumber and timber products in 1900, with 6,043 wage-earners, and products valued at \$11,177,529. In 1890 there were 830 establishments, 6,703 wage-earners, and products valued at \$8,359,925. The increase in the value of products during the decade was \$2,817,604, or 33.7 per cent.

There were 148 establishments engaged in the factory manufacture of men's clothing in 1900, with 6,129 wage-earners, and products valued at \$8,925,088. In 1890 there were 59 establishments, 6,113 wage-earners, and products valued at \$8,113,852. The increase in the value of products during the decade was \$811,236, or 10 per cent.

There were 4 establishments, not operated by steam

railroad companies, engaged in the manufacture of steam railroad cars in 1900, with 2,772 wage-earners, and products valued at \$7,722,768. In 1890 there were 5 establishments, 1,854 wage-earners, and products valued at \$3,974,173. The increase in the value of products during the decade was \$3,748,595, or 94.3 per cent. There are only 2 industries in the state that show a larger percentage of increase in value of products.

There were 43 establishments engaged in car construction and general shop work of steam railroad companies in 1900, with 5,581 wage-earners, and products valued at \$6,524,121. In 1890 there were 27 establishments, 2,859 wage-earners, and products valued at \$3,890,542. The increase in the value of products during the decade was \$2,633,579, or 67.7 per cent. These establishments are located at railway centers, and the remarkable increase in all particulars shows that Missouri is not only a great distributing center, but a highway for the transportation of commodities.

There were 377 establishments engaged in the manufacture of carriages and wagons in 1900, with 2,583 wage-earners, and products valued at \$5,583,364. In 1890 there were 425 establishments, 3,026 wage-earners, and products valued at \$5,233,324. The increase in the value of products during the decade was \$350,040, or 6.7 per cent.

There were 99 establishments engaged in the manufacture of confectionery in 1900, with 2,058 wage-earners, and products valued at \$5,554,884. In 1890 there were 75 establishments, 1,454 wage-earners, and products valued at \$3,584,953. The increase in the value of products during the decade was \$1,969,931, or 54.9 per cent.

There were 27 establishments engaged in roasting and grinding coffee and spice in 1900, with 499 wage-earners, and products valued at \$5,266,264. In 1890 there were 15 establishments, 252 wage-earners, and products valued at \$3,892,792. The increase in the value of products during the decade was \$1,373,472, or 35.3 per cent.

URBAN MANUFACTURES.

Table 4 shows the totals for the manufacturing and mechanical industries of the cities of Kansas City, St. Joseph, St. Louis, and Springfield, as returned at the censuses of 1890 and 1900, with the percentages of increase.

TABLE 4.—COMPARATIVE SUMMARY, KANSAS CITY, ST. JOSEPH, ST. LOUIS, AND SPRINGFIELD, 1890 AND 1900, WITH PER CENT OF INCREASE.

	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
The State.....	1900	18,754	\$249,888,581	184,975	\$60,719,428	\$41,396,905	\$214,988,018	\$385,492,784
Per cent of increase.....	1890	14,052	189,658,546	124,208	59,648,429	22,885,565	177,582,882	324,561,993
		33.5	81.8	8.7	1.8	80.9	21.1	18.8
Kansas City.....	1900	1,797	26,437,807	15,881	7,788,652	8,545,089	18,214,198	36,527,892
Per cent of increase.....	1890	1,478	14,104,620	12,511	7,446,826	1,901,313	16,861,184	31,986,866
		21.6	87.4	22.0	4.5	86.5	11.3	14.4
St. Joseph.....	1900	440	11,068,825	7,429	3,109,647	1,160,912	25,068,215	31,690,736
Per cent of increase.....	1890	276	5,230,697	4,579	1,970,231	498,472	7,848,353	11,916,141
		69.4	111.6	62.2	67.8	183.8	219.4	165.9
St. Louis.....	1900	6,732	162,179,331	82,672	38,191,076	33,271,804	117,861,443	233,629,733
Per cent of increase.....	1890	6,148	141,872,336	82,911	41,794,784	17,734,350	122,216,570	229,157,343
		9.5	14.3	10.8	8.6	87.6	13.6	2.0
Springfield.....	1900	245	2,111,048	2,127	1,017,845	154,290	2,274,705	4,126,871
Per cent of increase.....	1890	277	1,454,613	1,296	584,853	270,601	1,657,877	3,062,095
		11.6	45.1	64.1	74.1	143.0	87.2	34.8
Total for 4 cities.....	1900	9,214	201,796,511	107,609	50,101,720	38,132,075	163,418,561	305,974,732
Per cent of increase.....	1890	8,179	162,662,316	101,897	51,794,644	20,402,736	148,083,984	276,071,945
		12.7	24.1	6.1	8.3	86.9	10.4	10.8
Per cent of 4 cities to total for state.....	1900	49.1	80.8	79.7	82.5	92.1	76.0	79.4
	1890	58.2	85.8	81.6	86.8	89.2	83.4	85.1

¹ Decrease.

It appears from Table 4 that there has been a considerable increase during the past decade in the combined manufactures of these 4 cities. The number of establishments increased from 8,179 to 9,214, or 12.7 per cent; the average number of wage-earners, from 101,397 to 107,609, or 6.1 per cent; and the value of products from \$276,071,945 to \$305,974,732, or 10.8 per cent. The percentage of increase in each of these particulars was smaller in these 4 cities than in the state as a whole. The city of St. Joseph shows the most rapid growth, the value of products having increased from \$11,916,141 to \$31,690,736, or 165.9 per cent. This phenomenal increase was caused by the location there of large slaughtering and meat packing plants and industries incident thereto. In St. Louis, the leading city, the number of establishments increased from 6,148 to 6,732, or 9.5 per cent, and the value of products from \$229,157,343 to \$233,629,733, or 2 per cent, while the

average number of wage-earners decreased from 82,911 to 82,672, or three-tenths of 1 per cent. The number of establishments, number of wage-earners, and value of products, in this city in 1900, constituted 85.9, 61.2, and 60.6 per cent, respectively, of the totals for the state. That the increase in the value of products of St. Louis is small, is due, in part, to the removal of manufactures to more favorable localities for fuel and transportation, notably to East St. Louis, Madison, and Granite City, manufacturing points situated opposite St. Louis, on the Mississippi River, and to the West.

Table 5 presents the totals for the manufacturing industries of the 25 cities withdrawn from the enumerators, places them in comparison with the totals for the entire state and the state exclusive of these cities, and shows their rank in population and in value of products.

TABLE 5.—URBAN MANUFACTURES.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	PRODUCTS.			POPULATION.		
				Average number.	Total wages.			Value.	Rank.	Per cent of total.	Total.	Rank.	Per cent of total.
Total for state	18,764	\$249,888,581	20,659	134,975	\$60,719,428	\$41,896,905	\$214,988,018	\$385,492,784	-----	100.0	8,106,665	-----	100.0
Total for urban manufactures ..	11,017	215,555,313	11,358	117,179	54,296,344	39,819,437	177,327,402	329,685,915	-----	85.5	1,082,732	-----	38.2
Boonville	97	299,128	119	203	89,426	28,129	271,425	478,455	17	0.1	4,377	23	0.1
Brookfield	64	101,298	74	193	89,698	12,109	135,336	329,889	23	0.1	5,484	16	0.2
Cape Girardeau	94	431,170	115	282	105,009	35,871	331,749	612,259	15	0.2	4,815	21	0.2
Carrollton	48	215,760	60	120	41,445	11,525	185,767	311,868	24	0.1	3,854	25	0.1
Carthage	94	859,385	107	523	217,237	90,658	543,592	1,176,981	10	0.3	9,416	9	0.3
Chillicothe	111	323,685	133	290	114,007	20,154	309,296	608,767	16	0.1	6,905	15	0.2
Clinton	62	333,364	72	172	69,099	15,747	195,664	372,194	21	0.1	5,061	20	0.2
Hannibal	172	1,890,718	170	1,420	611,859	141,834	1,890,909	3,025,349	7	0.8	12,780	7	0.4
Independence	64	505,645	63	220	100,982	39,775	604,002	886,864	14	0.2	6,974	14	0.2
Jefferson City	99	1,627,434	100	455	169,124	589,999	2,279,573	3,361,998	5	0.9	9,664	8	0.3
Joplin	123	1,411,495	146	951	516,080	110,962	1,854,817	2,961,798	8	0.8	26,023	4	0.8
Kansas City	1,797	26,437,807	1,949	15,381	7,783,652	3,545,069	18,214,198	36,527,392	2	9.6	163,752	2	5.3
Louisiana	75	453,470	82	319	90,531	233,318	365,794	908,088	13	0.2	5,131	18	0.2
Maryville	69	180,075	84	155	66,789	15,489	160,015	333,888	22	0.1	4,577	22	0.1
Mexico	84	261,617	94	194	68,230	23,423	215,074	415,894	20	0.1	5,099	19	0.2
Moberly	81	551,463	91	766	358,641	42,120	421,410	950,664	12	0.2	8,012	11	0.3
Nevada	81	487,924	91	403	190,232	38,160	693,372	1,046,616	11	0.3	7,461	13	0.2
Rich Hill	48	224,609	60	115	42,659	12,061	164,148	255,132	25	0.1	4,058	24	0.1
St. Charles	75	1,940,719	80	1,275	601,987	126,412	1,982,519	3,145,662	6	0.8	7,982	12	0.3
St. Joseph	440	11,068,825	462	7,429	3,109,547	1,160,912	25,068,215	31,690,736	3	8.2	102,979	3	3.3
St. Louis	6,732	162,179,831	6,657	82,672	38,191,076	33,271,804	117,861,443	233,629,733	1	60.6	575,238	1	18.5
Sedalia	131	1,293,063	131	1,093	468,787	69,949	811,697	1,599,326	9	0.4	15,231	6	0.5
Springfield	245	2,111,048	273	2,127	1,017,345	154,290	2,274,705	4,126,871	4	1.1	23,267	5	0.7
Trenton	86	205,715	98	252	113,508	17,817	247,841	459,748	18	0.1	5,396	17	0.2
Webb City	42	211,090	42	164	79,294	12,056	244,351	425,763	19	0.1	9,201	10	0.3
Total for state exclusive of urban manufactures	7,737	34,333,268	9,306	17,796	6,428,084	1,577,468	37,660,616	55,806,869	-----	14.5	2,078,933	-----	66.8
Per cent of urban manufactures to total for state	58.7	86.3	56.0	86.8	89.4	96.2	82.5	85.5	-----	-----	33.2	-----	-----

Of the 18,754 establishments in the state, 11,017, or 58.7 per cent, were located in these 25 cities. They furnished employment to 117,179 wage-earners, or 86.8 per cent of the total number; and the value of their products, \$329,635,915, formed 85.5 per cent of the total for the state.

Table 6 shows the totals for the state by counties.

Table 7 shows the totals for the state by specified industries.

Table 8 shows the totals for the cities of Joplin, Kansas City, St. Joseph, St. Louis, and Springfield by specified industries.

Table 9 shows the totals for all industries in the cities withdrawn from the enumerators, exclusive of those shown in Table 8.

TABLE 6.—MANUFACTURES

COUNTIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 The State.....	18,754	\$249,888,581	\$26,767,573	\$36,748,766	\$70,040,666	\$116,341,586	20,659	13,900	\$14,569,606	134,975	\$60,719,428
2 Adair.....	71	174,857	80,285	27,950	61,150	54,972	86	6	5,180	175	65,166
3 Andrew.....	60	194,677	15,000	86,615	76,677	67,335	88	4	2,025	98	29,553
4 Atchison.....	58	135,839	9,553	26,595	50,865	48,826	63	2	600	94	32,538
5 Audrain.....	144	346,260	34,740	58,435	117,367	136,708	169	14	6,190	247	81,952
6 Barry.....	68	206,807	20,548	50,335	104,606	81,319	80	6	5,055	140	65,396
7 Barton.....	86	127,383	7,170	23,375	48,920	47,918	93	1	675	80	27,480
8 Bates.....	167	430,110	35,978	80,320	221,390	92,422	200	9	8,336	229	78,047
9 Benton.....	52	73,779	4,870	13,320	36,110	19,479	64	4	600	81	9,183
10 Bollinger.....	40	89,176	13,775	12,695	36,626	26,080	56	2	1,440	99	30,795
11 Boone.....	118	405,468	41,425	64,405	144,744	154,894	129	8	5,160	279	100,859
12 Buchanan.....	473	18,411,686	1,018,705	2,388,022	3,601,067	6,408,842	600	612	559,768	8,292	3,482,585
13 Butler.....	51	1,084,308	217,373	113,903	381,052	371,980	53	32	24,775	791	289,697
14 Caldwell.....	100	173,495	12,785	41,030	54,005	65,615	119	4	450	119	33,233
15 Callaway.....	94	324,727	51,767	70,250	98,620	104,090	111	12	8,832	186	63,012
16 Camden.....	45	103,791	44,591	12,905	39,476	6,820	56	5	6,820	30	10,070
17 Cape Girardeau.....	170	824,740	102,527	127,987	211,801	882,425	195	40	23,689	428	157,482
18 Carroll.....	119	335,096	23,921	62,795	101,140	147,240	143	9	4,760	191	63,904
19 Carter.....	19	1,290,620	813,550	111,150	335,235	530,685	17	17	9,868	519	185,503
20 Cass.....	131	222,579	22,225	54,095	84,008	62,193	161	2	610	90	31,900
21 Cedar.....	75	126,397	17,835	18,630	63,096	37,436	98	1	720	56	20,141
22 Chariton.....	110	323,982	85,789	74,516	119,975	98,652	187	4	1,580	120	40,248
23 Christian.....	48	102,255	9,052	16,885	46,040	30,323	53	7	1,875	79	16,036
24 Clark.....	38	156,795	17,082	39,075	53,684	41,954	45	2	1,020	101	36,715
25 Clay.....	70	254,643	19,090	42,909	84,896	107,743	79	13	6,325	126	42,348
26 Clinton.....	81	179,165	18,760	23,095	60,323	81,997	92	5	3,260	100	41,721
27 Cole.....	140	1,713,055	76,540	105,273	324,974	1,206,268	151	179	179,345	509	188,480
28 Cooper.....	149	421,427	29,025	93,991	146,494	147,917	186	13	7,759	272	112,853
29 Crawford.....	34	75,112	6,830	10,929	29,575	27,473	37	4	692	17	5,523
30 Dade.....	71	157,566	11,615	46,317	56,181	43,413	89	4	2,244	54	20,053
31 Dallas.....	81	68,893	4,970	7,570	30,350	20,503	44	4	720	24	7,103
32 Daviess.....	99	167,108	18,744	22,147	65,061	61,156	122	3	825	37	32,738
33 DeKalb.....	51	83,146	5,065	15,690	34,641	27,750	67	7	2,750	40	13,889
34 Dent.....	54	392,122	56,033	136,520	56,629	142,940	60	18	11,565	295	80,891
35 Douglas.....	39	96,151	8,390	29,300	37,895	20,566	60	1	800	60	13,907
36 Dunklin.....	51	476,601	76,550	48,170	190,543	161,338	64	30	21,224	506	181,520
37 Franklin.....	168	750,873	62,047	217,684	180,056	291,086	185	51	34,677	468	179,842
38 Gasconade.....	75	396,417	27,095	154,070	66,657	148,394	90	10	7,525	87	17,415
39 Gentry.....	103	284,523	25,430	53,930	117,646	87,522	4	132	4,080	236	99,264
40 Greene.....	318	2,666,143	184,625	598,466	767,673	1,115,374	349	155	113,065	2,520	1,129,609
41 Grundy.....	129	252,584	19,315	48,664	83,745	95,960	149	23	13,046	232	121,777
42 Harrison.....	124	200,010	24,735	37,200	77,850	60,225	160	6	3,698	121	33,748
43 Henry.....	166	501,540	45,044	102,703	203,796	149,992	190	21	16,067	270	98,169
44 Hickory.....	37	50,373	3,560	12,410	26,250	8,053	46	4	655	20	6,951
45 Holt.....	90	267,137	35,332	51,460	39,053	91,292	103	17	6,056	144	40,611
46 Howard.....	92	248,029	18,975	52,835	87,471	88,748	123	7	4,590	115	39,047
47 Howell.....	75	185,423	13,400	24,755	81,120	66,148	103	2	576	102	35,822
48 Iron.....	55	549,200	125,200	80,795	238,807	104,429	59	18	16,202	288	96,055
49 Jackson.....	1,918	27,290,249	2,333,517	2,416,367	12,152,331	10,388,094	2,069	1,500	1,504,766	15,771	7,969,358
50 Jasper.....	343	2,951,140	349,916	464,881	712,628	1,423,815	385	121	110,283	1,825	909,968
51 Jefferson.....	107	2,044,111	184,876	686,517	375,008	397,710	110	49	39,853	962	491,165
52 Johnson.....	124	335,668	31,278	73,430	124,408	106,552	149	7	3,810	149	56,556
53 Knox.....	45	114,508	8,545	17,165	33,307	65,491	60	6	460	46	16,844
54 Laclede.....	48	100,307	9,015	17,380	46,455	27,427	60	4	600	37	12,361
55 Lafayette.....	169	557,775	63,755	111,235	181,946	200,839	181	32	18,205	303	96,283
56 Lawrence.....	143	465,433	31,463	80,033	160,358	194,649	170	20	8,796	310	106,829
57 Lewis.....	90	215,704	12,598	40,852	88,516	78,743	105	8	4,750	180	46,509
58 Lincoln.....	72	175,107	14,325	26,500	59,475	74,307	91	5	375	98	30,543
59 Linn.....	173	374,761	25,436	66,368	180,503	102,449	208	12	6,754	391	160,730
60 Livingston.....	150	395,203	42,812	61,863	131,585	158,943	182	13	10,000	324	125,073
61 McDonald.....	58	125,179	8,785	25,385	51,525	39,534	76	1	600	85	27,295
62 Macon.....	122	487,548	34,157	50,335	138,203	264,848	150	22	13,125	250	92,745
63 Madison.....	47	242,640	45,225	71,050	104,534	104,534	64	10	7,160	158	59,305
64 Maries.....	30	41,809	2,332	7,115	20,225	11,637	31	1	500	14	4,692
65 Marion.....	222	2,013,110	143,212	285,443	509,658	1,074,797	236	146	118,055	1,470	680,523
66 Mercer.....	53	92,239	10,050	18,680	35,186	28,324	70	7	600	35	12,147
67 Miller.....	38	83,265	5,800	16,615	37,895	22,955	47	2	1,100	31	10,547
68 Mississippi.....	33	525,405	96,760	16,760	161,455	229,905	40	9	3,170	196	61,395
69 Moniteau.....	90	235,267	24,800	45,690	60,230	104,547	119	18	5,748	114	42,299
70 Monroe.....	86	149,935	5,005	24,145	47,140	72,632	102	1	800	80	28,390
71 Montgomery.....	72	175,966	40,580	29,835	52,656	46,345	85	5	1,030	77	24,192
72 Morgan.....	80	44,075	10,295	11,025	16,760	5,995	35	1	400	16	6,212
73 New Madrid.....	45	691,778	283,890	31,925	121,236	254,627	59	14	14,550	420	135,675
74 Newton.....	93	309,399	40,277	60,138	98,474	120,510	120	17	12,000	197	84,394
75 Nodaway.....	173	341,223	58,343	79,890	105,943	117,051	210	12	4,336	248	95,473
76 Oregon.....	50	77,385	16,730	10,920	33,090	16,845	61	3	1,170	67	22,264

BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
106,782	\$53,921,296	23,688	\$6,041,960	4,510	\$756,172	\$41,896,905	\$3,339,156	\$1,164,351	\$29,823,853	\$7,569,545	\$214,988,018	\$210,666,211	\$4,821,807	\$385,492,784	1
147	59,847	18	4,540	10	779	9,277	4,536	747	3,979	15	290,852	286,978	3,874	452,286	2
82	27,521	13	2,060	3	272	6,868	2,576	328	145,201		149,201	145,198	4,008	264,041	3
83	31,057	3	945	8	836	6,643	1,968	717	3,758	200	66,308	61,896	4,412	158,190	4
199	77,492	89	6,764	9	696	28,206	8,797	1,413	17,996		295,432	285,432	9,709	562,122	5
181	68,959	6	1,223	3	214	7,188	1,823	1,315	4,545		308,582	297,106	6,426	451,872	6
67	25,606	7	1,269	6	605	9,319	2,751	587	5,790	191	104,303	101,715	2,588	200,079	7
199	78,363	20	4,037	10	647	21,065	9,428	2,327	9,275	35	334,235	327,546	6,689	566,623	8
25	8,263	4	770	2	150	3,648	1,266	565	1,742	75	81,030	82,097	1,933	133,216	9
97	30,645			2	150	3,183	432	559	2,117	75	99,800	98,530	1,270	180,616	10
216	88,667	53	10,434	10	1,253	26,328	7,820	1,672	17,261	75	280,581	270,233	10,298	569,290	11
5,787	2,858,313	2,298	587,252	214	37,020	1,229,339	116,479	45,858	871,455	195,552	34,905,720	34,640,881	264,889	42,467,681	12
697	227,204	5	1,094	59	11,399	42,686	3,468	4,677	34,541		564,235	560,780	3,455	1,036,307	13
92	33,960	22	3,888	5	450	10,039	3,864	852	5,323		261,848	256,484	5,364	410,516	14
159	57,633	20	4,588	7	791	11,533	3,483	1,681	6,189	200	217,607	205,060	11,947	393,522	15
30	10,070					1,976	760	877	839		70,886	69,513	1,378	113,847	16
410	155,193	5	1,033	13	1,256	59,415	6,913	4,397	47,855	250	933,776	912,682	21,094	1,414,121	17
165	57,778	24	5,931	2	200	16,028	5,890	1,614	9,116	8	274,730	270,730	7,999	474,172	18
511	183,268	3	1,000	5	1,235	25,523	98	11,218	14,207		936,331	936,036	296	1,270,276	19
77	29,333	12	2,357	1	150	8,931	3,343	1,403	4,185		153,982	149,441	4,541	287,560	20
46	17,796	7	1,970	3	375	6,269	2,793	1,041	2,435		127,401	125,202	2,199	215,940	21
97	36,305	14	2,941	9	1,002	21,384	2,375	1,397	17,012	100	259,893	253,823	6,070	412,481	22
33	10,687	29	3,661	17	1,638	4,621	1,355	610	2,656		131,712	128,945	2,767	190,757	23
91	35,082	6	757	6	876	13,407	797	693	11,552		131,004	153,378	2,626	262,482	24
103	37,227	16	4,324	7	787	11,886	3,086	935	6,480		248,147	239,627	8,520	400,880	25
84	37,655	16	4,166			10,221	4,865	1,009	4,097	250	142,424	140,471	1,953	269,646	26
408	170,433	65	14,172	41	3,375	592,233	11,776	5,519	159,767	415,221	2,364,590	2,342,660	21,930	3,614,143	27
223	104,141	29	5,909	20	2,808	31,569	7,053	2,617	21,282	612	399,273	390,794	8,479	676,260	28
13	4,823	1	200	3	500	2,799	1,128	420	1,251		93,246	91,861	1,385	127,804	29
48	19,153	4	750	2	150	5,832	806	1,807	3,661	55	201,061	193,956	7,105	303,112	30
17	5,754	6	1,229	1	120	2,254	648	380	1,226		96,305	94,546	1,759	185,614	31
72	29,678	10	2,405	5	660	9,702	3,642	1,187	4,823	50	156,697	153,571	3,126	280,069	32
32	12,304	7	1,885	1	200	4,128	1,528	504	2,096		65,932	64,108	1,824	124,246	33
285	79,757	3	491	7	648	26,255	1,065	2,401	9,789	13,000	247,357	198,928	48,429	423,377	34
50	13,907					3,163	200	425	2,328		81,315	80,312	1,003	125,759	35
549	179,520	17	2,000			22,749	847	2,406	19,456	40	423,121	417,318	5,803	812,358	36
407	171,009	27	4,910	34	3,923	58,670	2,307	4,802	49,756	1,305	642,575	624,000	18,575	1,089,401	37
50	16,185	5	950	2	280	20,233	914	1,514	17,625	230	174,456	174,456	5,308	288,820	38
215	95,714	15	2,340	6	710	14,837	3,319	1,632	9,219	717	155,009	142,997	12,312	363,733	39
2,224	1,075,429	249	43,367	47	5,813	175,052	29,408	16,668	85,887	43,139	2,916,206	2,823,594	92,612	5,020,119	40
248	115,272	32	6,269	2	236	19,700	7,761	2,363	8,978	613	277,357	267,580	9,777	524,112	41
82	27,584	29	4,909	10	1,255	9,995	3,188	1,131	5,626		197,839	193,806	4,033	338,990	42
216	87,820	28	6,333	26	4,016	33,084	7,411	2,820	22,856		320,017	297,395	22,622	613,556	43
18	6,796	2	155	2	155	1,616	522	861	733		58,610	55,170	1,440	80,570	44
98	84,623	30	5,032	10	956	14,366	2,992	1,039	9,681	654	218,185	211,951	6,234	369,421	45
86	33,224	21	4,696	8	1,127	13,814	3,861	1,453	8,400	100	305,781	300,363	5,418	447,469	46
87	33,080	9	2,036	6	756	8,540	2,102	1,002	5,486		295,733	291,228	4,555	480,251	47
278	94,496	3	625	7	934	21,839	5,567	1,958	14,305		241,599	238,835	2,764	492,911	48
12,160	7,074,169	3,304	840,385	307	54,304	3,603,863	502,173	131,761	1,953,046	1,016,883	19,025,175	18,555,174	470,001	37,827,405	49
1,597	859,874	201	46,441	27	3,643	232,163	40,410	14,062	132,123	45,578	3,207,858	3,115,212	92,646	5,461,913	50
950	488,095	8	2,370	4	700	31,065	3,985	5,052	20,123	1,305	2,204,333	2,096,409	108,429	2,896,996	51
124	52,410	19	3,401	6	745	10,392	7,184	2,707	9,101	400	325,658	319,897	5,761	509,789	52
39	15,761	4	758	3	335	4,355	1,022	514	2,804	15	67,150	65,310	1,840	133,657	53
32	11,631	2	400	3	273	5,200	1,171	596	3,370	63	112,049	110,093	1,956	165,182	54
204	79,193	75	14,185	24	2,305	35,222	8,037	4,104	22,606	475	639,182	625,285	13,447	993,430	55
286	96,421	55	8,069	19	1,839	27,871	4,413	3,959	19,207	292	646,353	631,266	15,087	962,106	56
115	37,166	54	8,087	11	1,846	10,994	2,256	1,055	7,683		144,502	139,828	4,674	292,733	57
69	27,410	21	2,254	8	879	5,853	1,915	912	2,986	40	192,758	188,699	4,059	306,438	58
346	153,128	35	6,092	10	1,510	25,113	11,805	1,899	11,469		359,044	316,540	42,504	729,562	59
269	111,363	65	12,450	10	1,265	21,687	9,177	2,155	9,983	372	382,759	376,141	6,618	729,665	60
83	27,078	2	217			5,291	1,436	629	3,176		192,483	189,231	3,252	289,739	61
209	84,464	29	6,201	12	2,080	30,448	11,625	1,853	15,515	1,155	265,061	253,499	11,562	522,132	62
156	53,100	1	130	1	75	4,325	892	1,374	2,809		239,140	236,145	6,995	469,617	63
12	4,342			2	350	665	166	139	811		39,394	38,551	843	65,242	64
1,282	588,908	222	39,964	16	1,651	146,863	19,346	8,727	116,940	1,850	1,968,276	1,924,594	43,681	3,178,255	65
31	11,597	1	260	3	290	3,493	1,133	586	1,729	40	88,515	86,233	2,282	141,428	66
30	10,806			1	181	1,784	176	550	1,058		98,259	95,953	2,306	148,701	67
190	60,857			6	1,038	10,361	897	1,520	7,944		288,447	286,518	1,929	482,409	68
101	40,971	6	1,846	7	932	14,424	3,279	1,559	4,606	5,020	193,969	189,623			

TABLE 6.—MANUFACTURES

COUNTIES AND MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
77 Osage	60	\$145,699	\$14,515	\$26,425	\$50,075	\$54,684	71	1	\$500	43	\$15,753
78 Ozark	28	50,588	7,105	5,485	27,715	10,233	35			20	7,402
79 Pemiscot	43	818,728	370,983	28,818	204,814	214,608	55	15	12,200	458	151,482
80 Perry	65	177,172	10,280	25,915	60,674	80,293	76	8	1,884	50	22,690
81 Pettis	174	1,848,263	180,308	300,402	452,370	465,183	184	80	57,905	1,121	470,977
82 Phelps	67	99,821	11,490	19,709	44,140	24,482	79	1	1,140	60	22,046
83 Pike	166	1,560,115	78,145	167,049	277,365	1,037,556	187	180	120,023	687	217,776
84 Platte	72	184,052	10,205	41,015	84,985	47,847	76	7	5,750	98	33,977
85 Polk	83	274,960	14,505	45,510	78,915	136,030	108	12	4,130	114	29,168
86 Pulaski	37	74,780	4,735	17,620	36,905	18,470	41	3	900	25	8,333
87 Putnam	49	136,843	12,630	17,935	38,700	67,578	65	7	6,800	30	19,007
88 Ralls	28	65,014	3,205	19,380	16,969	25,460	30	4	3,400	108	34,320
89 Randolph	130	661,749	68,895	134,100	237,189	171,459	143	50	43,743	818	368,809
90 Ray	70	149,835	13,430	33,100	55,570	47,735	84	2	350	90	28,948
91 Reynolds	85	69,625	9,795	6,000	35,245	17,425	43	1	250	74	28,915
92 Ripley	46	417,267	142,637	21,672	151,497	91,461	52	34	20,568	337	82,314
93 St. Charles	129	2,127,078	95,565	413,740	488,712	1,129,061	136	64	62,003	1,333	620,624
94 St. Clair	85	128,942	10,205	25,438	57,090	35,119	97	6	2,510	62	17,775
95 Ste. Genevieve	61	321,875	55,040	65,530	99,099	102,206	76	14	9,900	95	34,536
96 St. Francois	76	507,537	49,815	89,585	63,097	305,040	104	16	12,712	312	142,212
97 St. Louis	188	1,143,912	214,425	273,656	189,541	466,290	188	51	69,826	664	235,801
98 St. Louis city	6,782	162,179,331	17,360,313	28,899,872	39,870,415	81,048,731	6,657	9,778	10,994,620	82,672	38,191,076
99 Saline	136	448,749	36,818	90,150	175,250	148,531	159	17	11,720	209	74,459
100 Schuyler	51	121,420	9,540	20,745	59,055	32,030	66	1	468	47	14,578
101 Scotland	72	121,535	9,270	24,530	46,735	41,030	91	6	2,914	101	31,499
102 Scott	37	150,955	21,045	20,630	58,032	55,593	42	5	2,520	110	39,328
103 Shannon	37	1,036,700	390,421	30,030	251,947	364,252	53	31	29,958	366	146,856
104 Shelby	64	164,990	19,205	45,400	48,735	51,600	85			74	23,139
105 Stoddard	79	444,501	53,518	44,940	129,278	216,855	101	21	17,294	407	153,702
106 Stone	22	33,220	3,635	3,635	15,235	6,645	27			15	6,600
107 Sullivan	76	155,471	17,415	28,261	62,206	47,539	108	6	2,194	70	18,315
108 Taney	23	52,499	5,580	6,850	25,390	13,679	37			21	6,403
109 Texas	70	145,373	27,190	18,250	77,462	22,471	84	1	480	84	27,440
110 Vernon	149	534,856	42,640	150,350	181,305	160,061	172	31	19,705	459	212,098
111 Warren	80	75,173	4,673	14,050	20,555	35,895	38			24	7,925
112 Washington	33	144,157	65,955	20,060	35,041	23,101	34	9	3,200	71	23,132
113 Wayne	49	1,575,205	399,045	179,501	593,287	403,272	59	25	20,579	458	159,427
114 Webster	37	67,109	4,270	15,240	30,190	17,409	54			15	5,031
115 Worth	52	32,325	10,505	19,460	38,925	23,485	65			44	15,323
116 Wright	54	123,005	11,033	19,930	49,833	42,054	71	1	150	38	10,091

TABLE 7.—MANUFACTURES BY

	18,754	\$249,888,581	\$26,757,573	\$36,743,766	\$70,040,656	\$116,341,586	20,659	13,900	\$14,569,606	134,975	\$30,719,428
1 All industries	18,754	\$249,888,581	\$26,757,573	\$36,743,766	\$70,040,656	\$116,341,586	20,659	13,900	\$14,569,606	134,975	\$30,719,428
2 Agricultural implements	26	1,412,165	129,785	176,555	283,845	322,020	25	81	101,977	493	242,307
3 Ammunition	3	106,000	30,000	28,000	18,000	34,400	1	5	8,400	21	11,550
4 Artificial limbs	7	12,200	20	80	3,100	9,000	6	3	1,200	12	7,468
5 Awnings, tents, and sails	19	265,156		500	35,342	228,814	19	72	49,228	371	111,672
6 Babbitt metal and solder	4	660,310	41,001	79,765	30,186	508,358	3	32	47,730	64	35,070
7 Baking and yeast powders	17	170,962	13,250	3,150	20,335	134,227	14	54	60,610	105	31,031
8 Baskets, and rattan and willow ware	8	442,638	40,000	37,000	27,246	288,392	8	15	17,100	269	103,392
9 Belting and hose, leather	4	112,000	15,000	25,000	10,500	61,500	1	14	14,900	25	13,072
10 Bicycle and tricycle repairing	96	72,963	1,925	3,000	23,453	39,535	112	2	1,560	34	38,507
11 Billiard tables and materials	5	11,825			1,375	10,450	4	3	1,550	18	10,400
12 Blacksmithing and wheelwrighting	2,380	2,273,290	399,151	565,539	423,303	379,742	2,778	13	10,702	1,537	715,660
13 Bookbinding and blank book making	24	234,352			93,015	141,337	25	22	24,276	346	141,390
14 Boot and shoe cut stock	3	29,810			1,864	27,946	1	6	8,800	43	12,124
15 Boots and shoes, custom work and re- pairing.	785	269,642	37,430	69,030	63,693	99,549	807	3	1,549	302	136,633
16 Boots and shoes, factory product	50	4,133,979	89,250	456,877	304,563	2,333,234	25	330	346,877	5,915	2,052,114
17 Bottling	16	702,597	87,070	96,940	95,607	422,980	10	24	30,050	1,256	331,537
18 Boxes, cigar	5	42,600	5,500	4,000	13,200	19,900	4	7	9,560	38	27,235
19 Boxes, fancy and paper	12	322,398			126,375	197,023	6	42	47,760	658	134,228
20 Boxes, wooden packing	27	668,275	87,920	32,701	143,091	334,563	19	51	58,238	850	320,611
21 Brass castings and brass finishing	12	360,475	29,330	18,500	82,550	230,015	11	26	33,218	190	95,933
22 Brassware	3	39,250	4,000	3,000	10,100	17,150	4	4	3,360	75	38,780
23 Bread and other bakery products	582	3,748,077	284,250	523,450	1,394,779	1,045,598	609	390	273,309	2,264	985,472
24 Brick and tile	219	6,051,073	1,195,076	1,050,303	849,371	2,054,328	260	97	112,717	2,440	866,946
25 Bridges	7	195,021	1,500	2,500	28,224	162,737	4	29	27,220	622	369,367
26 Brooms and brushes	98	182,437	16,440	15,610	19,235	131,152	111	30	24,017	264	102,991
27 Buttons	11	39,495	600	3,150	12,188	23,557	15	4	1,286	33	23,331
28 Carpentering	1,104	2,291,154	218,762	220,277	321,351	1,530,264	1,270	107	111,649	5,558	2,708,842
29 Carpets, rug	21	5,620	145	490	2,337	2,648	21			26	8,493
30 Carriage and wagon materials	32	649,237	47,850	68,100	135,022	348,315	28	35	39,725	465	196,635
31 Carriages and wagons	377	4,019,037	461,934	553,643	314,923	2,683,567	462	190	210,305	2,533	1,310,500

BY COUNTIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
42	\$15,701			1	\$52	\$3,682	\$858	\$676	\$2,098	\$60	\$190,914	\$187,080	\$3,834	\$260,897	77
19	7,482			1	120	3,080	180	415	2,505		108,518	102,247	1,271	148,812	78
441	149,331			17	2,151	29,964	5,715	6,521	17,728		375,607	371,760	3,847	718,138	79
48	22,240	2	\$150			5,002	1,678	2,232	2,232		174,996	171,008	3,988	251,922	80
825	410,685	282	57,855	14	2,437	71,266	19,882	8,468	42,474	442	878,066	889,808	38,758	1,699,163	81
54	21,846	2	425	4	675	7,910	8,887	844	3,479	200	134,248	131,632	2,716	227,760	82
539	193,146	124	20,368	24	4,232	327,592	8,901	4,550	301,307	18,074	1,217,156	1,215,509	31,647	2,359,487	83
68	29,443	19	3,194	11	1,340	21,335	2,014	711	18,575	35	191,160	186,248	6,902	346,948	84
57	20,850	36	5,980	21	2,838	28,098	3,790	1,831	22,702	276	256,667	250,864	5,803	466,232	85
24	8,287			1	86	1,622	524	468	630		74,232	72,924	1,308	118,865	86
94	12,673	21	5,800	5	584	23,011	1,755	648	20,608		91,760	90,294	1,456	188,163	87
104	38,675	1	160	3	485	2,178	657	816	1,305		59,786	49,085	10,701	117,465	88
732	359,680	40	7,810	16	1,319	45,655	9,766	5,696	27,464	2,729	434,123	472,151	21,972	1,098,308	89
65	24,313	17	3,380	8	1,255	9,836	3,744	868	5,174	50	126,210	128,826	2,884	244,336	90
72	28,770			2	146	1,956	154	364	1,438		76,617	76,852	266	139,682	91
331	81,189	1	300	5	825	14,648	642	3,800	10,206		179,286	178,047	1,189	382,311	92
1,279	618,363	20	2,484	34	4,277	130,905	11,966	4,040	114,199	700	2,126,678	2,068,710	57,663	3,375,065	93
45	15,377	7	1,256	10	1,142	5,183	2,647	708	1,773		138,360	131,417	3,943	215,428	94
71	31,000	7	2,700	7	836	19,654	1,088	1,189	17,382		307,889	298,811	9,088	488,209	95
302	140,515	16	1,138	5	559	13,258	2,610	3,512	7,216	20	974,090	946,386	27,704	1,254,013	96
508	276,778	49	15,974	17	3,049	142,625	10,118	4,326	116,476	11,705	701,350	654,437	46,913	1,441,468	97
64,111	88,537,486	15,548	4,113,863	3,013	539,747	33,271,894	2,262,390	745,616	24,489,616	6,773,983	117,861,443	115,458,275	2,403,168	233,629,788	98
170	67,849	31	5,651	8	959	35,084	7,296	2,168	13,233		517,297	505,260	12,037	800,921	99
88	13,099	2	502	7	977	3,046	813	608	1,625		102,526	100,378	2,148	164,837	100
89	30,061	4	640	8	898	5,518	2,035	648	2,835		75,340	72,326	3,014	177,780	101
106	38,828	1	200	3	300	6,161	801	417	4,943		354,689	350,497	4,192	468,465	102
302	145,846	4	510	4	26,039	26,039	9,165	482	16,392		571,087	569,800	1,278	880,382	103
56	20,185	3	1,009	10	6,589	5,589	1,622	909	4,068		109,694	101,518	2,176	202,881	104
399	152,841	1	200	7	661	24,085	1,664	3,404	18,547	470	441,486	436,835	4,651	866,237	105
13	6,170	2	430			2,476	254	126	2,096		58,663	58,000	663	83,258	106
54	15,661	7	1,208	9	1,476	5,016	1,080	383	4,098		75,349	72,907	2,442	157,245	107
21	6,403			1	100	890	243	407	240		70,126	69,196	930	103,687	108
81	27,086	2	254	1	100	2,763	428	383	1,492		181,087	178,995	2,092	282,267	109
421	204,896	30	6,338	8	369	41,265	10,104	3,240	21,921	6,000	781,813	740,617	32,196	1,210,973	110
21	7,533			3	392	2,160	854	201	1,105		78,863	77,028	1,835	118,880	111
68	22,742			3	390	1,990	252	695	1,048		146,755	144,330	2,425	222,796	112
437	159,277			1	150	45,492	1,258	5,502	38,737		755,442	753,885	1,607	1,038,392	113
13	4,760	2	521			1,969	686	432	1,501		164,171	161,683	2,538	211,004	114
37	13,940	5	1,179	2	204	3,873	1,861	503	2,659		72,043	69,617	2,426	132,006	115
28	8,551	4	760	11	780	2,658	924	563	1,171		148,710	141,020	2,690	201,191	116

SPECIFIED INDUSTRIES: 1900.

106,782	\$53,921,296	23,688	\$6,041,960	4,510	\$756,172	\$11,396,905	\$3,339,156	\$1,164,351	\$20,323,858	\$7,569,545	\$214,988,018	\$210,666,211	\$4,321,807	\$385,492,784	1
492	242,207			1	100	65,325	3,691	4,712	56,092	930	406,977	392,532	14,445	953,965	2
17	10,780	3	650	1	120	6,285	815	1,745	4,225		429,810	428,680	1,130	493,000	3
11	7,026	1	437			3,630	2,196	61	1,873		5,012	4,907	105	29,949	4
124	56,858	237	53,350	10	1,464	85,041	17,014	919	15,108	2,000	687,772	585,086	2,686	989,961	5
64	35,070					72,954	228	8,841	65,885	3,000	2,535,967	2,526,177	9,790	2,785,384	6
85	16,600	70	14,484			27,323	6,089	695	20,539		412,808	410,042	2,266	677,418	7
183	88,332	41	7,300	45	8,260	10,391	1,572	1,200	8,119		126,226	123,080	3,146	361,290	8
24	12,922			1	150	20,641	1,380	778	16,533	1,950	165,075	163,690	1,885	224,960	9
73	36,781	1	360	10	1,866	21,620	14,423	472	4,675	2,050	83,291	81,544	1,747	227,500	10
18	10,400					3,243	1,500	68	1,675		13,939	13,764	186	50,850	11
1,504	706,654			53	9,006	159,663	105,362	14,305	87,125	2,871	1,144,557	1,056,622	87,935	3,742,105	12
151	89,633	184	50,500	8	1,257	24,433	13,118	539	9,016	1,760	122,994	119,821	3,173	381,239	13
28	8,866	15	3,263	4	4,538	4,538	2,720	122	1,691		115,398	115,398	540	177,050	14
294	136,360	1	1,674	7	913	77,674	62,452	2,194	9,781	3,247	250,185	244,271	5,914	857,171	15
3,256	1,356,079	2,207	628,281	452	72,754	643,942	48,800	11,920	258,922	324,800	7,998,026	7,935,964	57,062	11,253,202	16
922	257,401	7	1,770	327	72,416	143,697	27,810	5,774	110,113		3,113,297	3,107,082	6,215	4,014,503	17
33	14,525	45	11,960	5	750	2,964	1,284	162	1,528		54,364	53,291	1,070	109,625	18
147	58,912	384	59,552	127	15,764	27,890	15,370	815	11,705		163,789	159,360	4,429	487,844	19
712	299,309	13	2,702	125	18,600	61,641	18,956	4,260	38,425		814,797	808,023	6,774	1,467,054	20
185	94,893			5	1,040	46,449	6,450	1,581	37,468	1,000	928,416	913,940	14,475	1,158,054	21
74	38,600			1	180	2,327	960	180	1,237		40,840	39,180	1,160	120,500	22
1,602	835,376	552	126,030	110	24,066	414,991	143,683	17,537	252,881	890	3,684,605	3,784,747	99,858	7,284,298	23
2,305	848,925			135	18,021	170,569	20,504	22,020	119,593	8,452	472,120	457,088	415,032	1,888,250	24
622	369,367					8,522	672	655	6,345	850	260,770	256,480	4,290	768,486	25
215	94,877	22	5,015	27	3,099	33,449	6,135	1,055	17,259	9,000	309,837	308,317	1,050	606,580	26
58	19,133	21	4,220	4	528	10,738	2,640	74	7,874	200	26,679	25,229	1,450	85,449	27
5,540	2,705,059	1	800	17	2,983	4,885,165	65,876	10,415	130,092	4,678,792	6,130,323	6,112,204	18,122	16,592,767	28
18	7,413	2	331	6	719	2,087	1,768	63	266		6,373	6,207	166	31,940	29
450	194,024	4	1,265	11	1,396	30,323	3,825	1,862	19,191	450	425,695	420,462	5,173	668,865	30
2,520	1,292,522	42	13,966	21	4,072	251,744	92,608	18,074	128,880	12,187	2,733,960	2,683,063	50,877	5,583,361	31

TABLE 7.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.						Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Number.		Salaries.	Total.		
										Average number.	Wages.	
82 Cars and general shop construction and repairs by steam railroad companies	43	\$3,645,260	\$764,885	\$882,094	\$701,632	\$1,296,699	242	\$219,292	5,581	\$3,182,753		
83 Cars and general shop construction and repairs by street railroad companies	4	525,563	154,848	262,220	58,500	50,000	10	8,200	440	263,826		
84 Cars, steam railroad, not including operations of railroad companies.	4	4,530,982	393,229	755,476	711,140	2,671,137	117	125,561	2,772	1,373,353		
85 Cars, street railroad, not including operations of railroad companies.	4	2,740,655	357,064	301,731	281,180	1,800,680	48	87,597	1,175	626,481		
86 Charcoal	4	43,481	2,400	19,850	3,450	17,781	3	1,020	200	31,763		
87 Cheese and butter, urban dairy products.	36	15,435	3,150	2,950	4,735	4,600	34		15	4,897		
88 Cheese, butter, and condensed milk, factory product.	79	199,796	11,166	67,255	90,209	31,166	66	4,994	74	31,188		
89 Chemicals	8	1,969,875	181,224	294,389	427,586	1,066,676	1	111,606	340	162,351		
90 China decorating	6	2,830			555	2,275	6		1	600		
91 Cleansing and polishing preparations	8	12,160		500	2,360	9,300	7	11,049	14	6,132		
92 Clocks	3	205,275	400	1,500	10,425	192,950	1	6	35	21,692		
93 Clothing, men's, custom work and repairing.	745	1,784,030	76,105	87,375	89,400	1,530,650	810	166	2,517	1,335,225		
94 Clothing, men's, factory product	148	4,651,882	78,100	109,900	249,794	4,219,088	161	386	6,129	1,693,725		
95 Clothing, men's, factory product, buttonholes.	5	3,810			2,370	1,440	5		12	4,458		
96 Clothing, women's, dressmaking	314	210,087	12,225	20,250	37,775	139,337	335	33,699	1,315	382,257		
97 Clothing, women's, factory product	48	1,019,456	6,500	4,000	99,751	909,205	56	190	2,068	564,885		
98 Coffee and spice, roasting and grinding	27	2,517,482	330,866	57,622	269,857	1,859,137	18	285	499	176,420		
99 Coffins, burial cases, and undertakers' goods.	5	428,734	18,100	47,400	41,600	321,634	2	62	350	149,827		
100 Coke	3	1,850	125		1,575	150			4	2,220		
101 Confectionery	99	2,312,164	241,650	363,360	974,956	1,262,198	105	475	2,058	662,513		
102 Cooperage	80	1,350,369	185,693	187,150	189,765	837,761	85	59	1,301	484,419		
103 Corsets	7	114,820	6,417	24,000	19,075	65,328	5	7	135	35,218		
104 Cotton, ginning ¹	22	59,021	1,780	11,450	45,291	500	31	4	22	3,235		
105 Cutlery and edge tools	6	43,597	50	450	6,547	39,550	6	7	43	18,757		
106 Druggists' preparations, not including prescriptions.	13	871,034	49,675	61,600	21,140	788,669	7	94	193	67,464		
107 Dyeing and cleaning	76	176,772	25,500	64,900	55,960	30,412	82	16	298	131,348		
108 Electrical apparatus and supplies	17	981,975	35,000	65,000	170,973	711,002	11	59	533	186,216		
109 Electrical construction and repairs	42	117,209			21,104	96,105	44	30	185	111,430		
110 Electroplating	13	44,675			22,575	22,100	15	7	36	45,723		
111 Enameling and enameled goods	4	41,453			22,494	18,959	2	9	35	10,480		
112 Engraving and diesinking	21	54,000		2,000	35,550	17,050	18	19	110	57,079		
113 Engraving, steel, including plate printing.	8	54,158			21,005	33,153	6	17	63	30,379		
114 Engraving, wood	11	10,730			4,325	5,955	13		28	11,022		
115 Envelopes	4	94,920			58,599	36,321	4	3	70	21,835		
116 Fancy articles, not elsewhere specified	7	62,303		3,200	22,615	36,488	2	5	32	12,684		
117 Fertilizers	3	219,201	20,767	46,957	37,607	113,870	1	15	60	27,986		
118 Files	3	8,635			2,650	5,985	4	2	10	4,200		
119 Flags and banners	3	45,840			800	45,040	2	3	20	7,120		
120 Flavoring extracts	14	107,810			7,710	100,100	16	17	82	80,903		
121 Flouring and grist mill products	1,145	11,402,827	868,775	2,309,234	4,201,382	4,023,436	1,446	374	1,654	851,377		
122 Food preparations	80	872,688	13,552	162,668	155,777	540,391	28	100	400	165,755		
123 Foundry and machine shop products	261	11,606,445	1,259,921	1,292,508	2,420,658	6,633,366	210	751	7,084	3,882,749		
124 Fruits and vegetables, canning and preserving.	45	845,360	22,117	71,255	128,736	128,262	33	74	650	116,467		
125 Fur goods	12	39,700	2,000	2,000	4,850	30,850	8	14	92	37,310		
126 Furnishing goods, men's	8	166,691	600	400	8,100	157,691	9	32	147	44,754		
127 Furniture, cabinetmaking, repairing, and upholstering.	204	644,828	72,010	145,790	58,588	368,440	205	36	668	337,244		
128 Furniture, factory product	54	3,058,408	451,935	597,316	435,191	1,573,966	34	265	2,554	1,109,128		
129 Gas and lamp fixtures	8	103,239	500	600	19,463	82,676	9	13	88	38,843		
130 Gas, illuminating and heating	25	33,504,380	2,496,192	2,469,645	25,043,913	3,494,630	150	112,451	831	464,417		
131 Glass	3	2,198,316	251,081	668,346	878,583	400,300	26	47,448	650	341,375		
132 Glass, cutting, staining, and ornamenting.	17	410,865	33,750	20,000	16,005	340,510	13	22	323	94,556		
133 Grease and tallow	7	474,884	61,946	98,240	150,010	164,688	5	14	70	38,940		
134 Hairwork	9	20,020	6,000	3,000	3,205	7,315	10	3	19	3,954		
135 Hand stamps	10	31,195			13,380	17,315	7	5	36	18,017		
136 Hardware	5	369,919	27,000	49,000	83,200	210,719	1	19	501	161,550		
137 Hats and caps, not including fur hats and wool hats.	16	64,189			15,671	48,518	24	7	182	64,567		
138 House furnishing goods, not elsewhere specified.	6	12,975			6,085	6,890	3	6	20	6,345		
139 Ice, manufactured	81	1,395,166	271,333	406,038	977,152	180,593	13	65	279	157,006		
140 Instruments, professional and scientific.	8	163,168			52,268	115,900	7	2	72	56,752		
141 Iron and steel	7	2,295,278	367,920	406,996	510,042	1,010,320	68	96,331	1,868	1,006,584		
142 Ironwork, architectural and ornamental.	20	1,705,742	198,500	189,618	300,072	1,017,552	10	95	763	441,467		
143 Jewelry	13	146,912			40,200	106,712	12	6	172	118,638		
144 Kolin and other earth grinding	5	278,466	33,000	66,717	124,356	54,393	6	7	112	51,449		
145 Lamps and reflectors	10	339,796	500	10,300	41,250	287,746	11	15	164	59,099		
146 Lead, smelting and refining	11	944,539	107,000	269,550	61,123	606,861	3	35	474	255,500		

¹ Does not include many ginneries operated in connection with saw, grist, and cottonseed-oil mills, or for the use exclusively of plantations on which they are located. For the full number of ginneries in operation reference should be made to the special report on cotton ginning.

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
5,572	\$3,180,795	6	\$1,569	8	\$389	\$102,500	\$10	\$48,687	\$53,853		\$3,019,574	\$2,931,231	\$38,343	\$6,524,121	32
440	263,326					7,752		5,026	2,126		229,813	226,093	2,820	539,671	33
2,766	1,371,198	6	2,155			193,160	3,263	7,463	187,434		5,101,335	4,999,808	101,527	7,722,768	34
1,170	625,276	2	725	3	480	129,709	5,120	51,111	73,478		1,329,966	1,320,084	9,882	2,406,836	35
200	31,763					12,816		108	708	\$12,000	14,837	14,777	60	67,270	36
13	4,527	2	370			3,859	2,272	147	1,440		30,800	30,485	315	44,276	37
66	29,775	5	963	3	400	5,989	1,843	912	3,234		329,158	320,611	8,547	481,936	38
277	150,557	37	7,152	26	4,642	135,806	7,200	16,775	111,831		1,335,798	1,302,927	32,871	1,804,090	39
14	6,132	1	600			829	590	9	230		4,735	4,665	70	11,275	40
85	21,692					3,591	1,227	99	2,265		14,729	14,564	165	47,459	41
1,835	1,119,969	636	207,191	46	8,065	2,533	2,172	281	80		70,494	69,098	766	184,975	42
957	469,065	5,098	1,214,440	74	10,220	646,939	258,476	8,891	146,617	232,955	1,907,189	1,888,223	18,966	5,107,616	43
7	8,228	5	1,230			685,073	111,031	16,992	153,285	403,765	5,095,150	5,057,152	37,998	8,925,085	44
50	38,340	1,280	339,825	35	4,092	886	508		178		2,419	2,196	223	14,112	45
378	162,236	1,632	393,994	58	8,155	68,701	49,303	1,292	15,368	2,748	476,214	472,457	3,767	1,272,578	46
266	131,522	195	39,883	38	5,015	135,795	43,957	3,809	37,819	45,210	1,739,310	1,725,746	13,564	3,124,901	47
273	181,338	77	18,489			212,681	51,144	10,088	143,704	2,750	4,303,097	4,279,077	24,020	5,266,264	48
4	2,220					51,851	14,860	2,640	31,451		491,523	487,809	3,714	775,301	49
934	451,307	1,024	203,483	50	7,723	125		85	90		2,566	2,566		5,520	50
1,193	404,567	7	1,150	99	18,702	439,566	91,613	13,083	334,070	800	3,476,112	3,437,275	38,837	5,554,384	51
9	6,331	122	28,497	4	390	84,507	10,795	5,900	67,812		1,262,225	1,254,252	7,974	2,232,442	52
22	3,235					13,220	2,084	451	11,285		65,462	64,450	1,012	129,187	53
40	12,957	3	800			1,570	302	15	1,253		9,343	9,089	259	34,436	54
78	40,288	114	27,016	1	150	5,937	1,512	42	3,338	1,000	13,202	16,957	1,245	53,456	55
191	99,398	96	30,135	11	1,815	319,071	8,242	1,904	303,925		431,604	479,412	2,192	1,718,970	56
405	166,646	111	26,245	17	3,325	20,799	20,799	1,744	14,671	1,225	43,708	37,167	6,541	334,777	57
183	111,232					144,966	11,408	3,147	124,276	6,135	355,475	344,342	11,133	910,602	58
78	42,110	2	480	2	258	22,472	11,508	453	7,261	3,250	297,809	295,739	2,070	542,253	59
25	9,010	9	1,320	1	156	12,272	6,094	156	5,242	180	19,367	17,330	2,037	105,415	60
92	53,827	5	1,180	13	2,072	3,140	1,913	122	1,105		11,961	9,371	2,590	42,688	61
51	27,609	12	2,770			14,899	7,681	314	5,704	1,200	33,031	29,713	3,368	169,422	62
21	10,288	1	150	6	584	9,664	4,796	140	3,223	1,500	35,026	33,961	1,065	116,206	63
24	12,360	45	9,240	1	235	2,726	1,504	34	823	360	3,507	3,409	98	35,423	64
15	8,365	14	3,611	3	703	4,518	2,230	248	2,040		62,587	61,495	1,092	107,771	65
59	27,590					5,222	2,726	66	1,630	750	13,671	11,661	2,010	83,000	66
10	4,200					36,440	300	733	30,714	4,652	137,306	129,698	7,608	236,635	67
3	1,600	17	5,520			759	475	29	255		2,139	1,496	643	22,040	68
41	20,225	40	10,478	1	200	2,955	1,980	140	835		59,850	59,700	150	86,975	69
1,611	835,168	34	14,460	9	1,759	13,453	6,871	753	5,829		163,331	161,962	1,369	233,028	70
289	141,435	101	21,900	19	2,420	520,468	26,512	63,596	430,160	200	21,937,507	21,633,605	303,902	26,393,928	71
6,997	3,861,445	6	1,610	31	19,694	95,314	15,020	2,571	77,723		1,480,379	1,464,025	16,354	2,049,893	72
170	49,303	377	56,833	103	9,781	916,851	109,308	44,092	706,541	56,410	6,732,008	6,508,566	223,442	15,073,005	73
24	16,185	66	20,644	2	481	23,399	23,399	1,526	17,331	1,412	559,651	552,522	7,129	869,977	74
18	11,362	124	32,554	5	838	14,808	7,960	281	6,242	325	133,697	133,092	605	252,683	75
608	317,835	47	17,025	13	2,334	23,024	6,964	290	15,770		172,562	171,867	695	315,600	76
2,345	1,062,810	78	25,770	131	20,518	81,765	33,709	3,931	36,795	2,330	609,941	599,096	10,845	1,438,415	77
33	38,843					221,357	30,565	13,326	163,871	8,095	1,610,747	1,581,977	28,770	3,758,568	78
834	464,417					15,088	6,740	412	7,986		55,541	53,308	2,236	155,200	79
648	340,825					256,572	85	83,686	172,036		756,457	733,333	23,074	2,877,102	80
301	88,086	13	3,900	9	2,570	98,119	15,620	6,242	91,723		231,515	155,826	75,689	765,664	81
70	33,940					23,939	13,365	2,344	8,155	75	516,967	508,770	8,197	872,125	82
2	776	17	3,203			17,171	840	2,060	14,271		243,780	222,750	20,930	395,785	83
80	17,000					4,255	2,516	329	1,410		8,105	7,924	181	26,248	84
501	161,550					5,231	3,060	263	2,178	150	21,768	21,193	575	81,083	85
70	34,677	111	29,740	1	150	19,694	915	2,559	16,120		242,436	234,336	8,100	753,065	86
7	3,520	12	2,600	1	225	8,334	5,704	205	2,425		99,328	97,648	1,680	233,575	87
279	157,006					2,330	1,330	180	920		35,675	35,215	460	59,006	88
72	56,752					72,868	6,720	10,224	55,924		226,385	66,473	159,912	641,405	89
1,849	1,003,185	19	3,399			7,669	5,185	255	1,979	250	23,080	21,155	1,925	133,474	90
763	439,133					100,021	15,650	12,175	72,196		2,064,533	1,650,288	414,245	3,974,666	91
160	114,224					169,132	5,951	6,476	76,225	80,430	902,025	872,915	29,110	1,523,193	92
112	51,449	9	3,822	3	637	13,670	9,475	544	2,921	730	108,952	105,741	3,208	339,454	93
137	55,949					25,769	3,870	1,370	26,539		169,901	148,930	20,974	303,361	94
473	255,362	1	300	16	2,350	12,311	3,253	668	3,090	800	67,070	65,642	1,428	182,261	95
		1	228	1	228	41,565	41,565	5,601	35,964		3,317,558	3,212,951	104,607	3,852,435	96

TABLE 7.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
97 Leather goods.....	5	\$51,290	\$7,000	\$18,000	\$7,040	\$19,250	8	6	\$1,650	38	\$16,100
98 Leather, tanned, curried, and finished.....	9	922,083	97,635	118,736	78,743	681,969	4	20	35,860	185	98,578
99 Lime and cement.....	31	797,926	201,862	282,119	107,675	256,280	18	48	46,850	583	206,837
100 Liquors, distilled.....	85	147,895	4,695	21,228	26,972	95,008	39	8	1,800	21	5,478
101 Liquors, malt.....	49	25,781,980	4,108,262	8,211,876	3,535,386	9,876,016	13	398	836,383	3,150	1,890,100
102 Liquors, vinous.....	7	506,600	13,800	188,100	28,200	326,500	3	19	37,650	48	22,405
103 Lithographing and engraving.....	10	623,841			272,123	251,218	6	56	81,619	385	203,833
104 Lock and gun smithing.....	105	76,672	8,826	11,825	27,175	28,347	114			52	26,502
105 Looking-glass and picture frames.....	57	285,004	18,725	22,698	19,863	179,218	61	32	33,877	259	120,945
106 Lumber and timber products.....	1,197	11,089,799	2,961,118	755,179	3,609,493	3,764,104	1,614	287	211,360	6,043	2,012,659
107 Lumber, planing mill products, including sash, doors, and blinds.....	88	3,540,248	588,890	412,897	619,007	1,919,949	69	221	219,472	1,999	1,016,039
108 Malt.....	9	473,946	55,600	137,980	38,750	241,616	4	18	23,984	58	40,599
109 Mantels, slate, marble, and marbleized.....	3	8,710			310	3,400	5			18	11,250
110 Marble and stone work.....	85	970,603	221,367	49,978	207,186	491,972	93	71	65,865	717	392,413
111 Masonry, brick and stone.....	378	1,245,948	138,305	72,891	170,030	864,722	469	98	104,252	3,520	2,243,849
112 Mattresses and spring beds.....	26	249,215	14,300	25,000	45,293	164,622	27	19	22,247	257	110,550
113 Millinery and lace goods.....	13	93,640			23,482	70,158	9	27	14,884	418	82,105
114 Millinery, custom work.....	695	1,162,756	78,258	139,499	44,054	905,945	802	185	113,443	1,453	381,839
115 Mineral and soda waters.....	110	868,001	81,640	146,250	812,369	327,752	125	66	59,456	388	176,066
116 Mirrors.....	4	57,672	12,000		24,950	20,622	2	11	9,766	74	31,925
117 Models and patterns.....	19	39,810	1,400	560	19,422	18,428	20	4	3,660	79	51,587
118 Monuments and tombstones.....	139	645,793	133,300	65,889	29,306	417,298	167	54	33,247	327	168,659
119 Mucilage and paste.....	7	26,948			4,935	22,013	8	5	4,140	21	7,756
120 Musical instruments and materials, not specified.....	10	26,555	3,250	6,000	2,990	14,315	10	2	1,520	32	19,860
121 Musical instruments, organs and materials.....	4	48,880	4,300	20,100	1,330	17,650	6			28	13,916
122 Oil, not elsewhere specified.....	3	84,102			1,450	32,652	3	12	6,942	6	3,120
123 Optical goods.....	13	178,500			17,800	160,700	14	13	12,850	56	32,176
124 Painting, house, sign, etc.....	562	626,207	72,578	66,265	95,079	392,285	656	76	69,010	1,825	1,108,053
125 Paints.....	20	3,078,899	257,868	352,013	402,858	2,066,655	12	138	213,626	488	225,830
126 Paper hanging.....	130	280,368	15,176	22,306	19,506	229,382	139	55	43,460	517	295,321
127 Patent medicines and compounds.....	115	2,234,762	187,250	229,985	161,547	1,655,920	39	343	937,123	676	230,582
128 Paving and paving materials.....	117	2,576,787	541,556	125,133	489,939	1,420,159	119	138	150,157	2,496	1,196,005
129 Perfumery and cosmetics.....	7	82,407			8,150	74,257	7	21	26,195	91	32,593
130 Photographic materials.....	5	512,042	27,000	152,000	62,782	270,260	3	50	91,085	301	151,559
131 Photography.....	312	453,348	37,058	81,857	176,639	157,794	338	30	26,200	388	175,812
132 Photoithographing and photoengraving.....	7	25,800			14,300	11,500	12	4	5,355	46	27,585
133 Pickles, preserves, and sauces.....	12	408,497	12,747	43,000	45,706	302,044	8	77	74,178	215	84,323
134 Pipes, tobacco.....	12	126,343	6,325	17,450	27,755	74,813	11	15	13,220	291	82,191
135 Plastering and stucco work.....	171	171,561	80,695	34,155	20,992	35,709	210	3	1,890	459	263,829
136 Plated and britannia ware.....	3	68,300			44,000	24,300	1	6	5,250	35	16,298
137 Plumbers' supplies.....	8	803,460	27,200	22,800	85,850	167,600	1	64	53,291	347	179,120
138 Plumbing, and gas and steam fitting.....	358	1,187,024	139,260	86,940	106,844	858,980	438	126	109,011	1,538	973,696
139 Pottery, terra cotta, and fire-clay products.....	37	2,952,107	877,991	781,508	380,819	901,789	27	123	161,997	1,607	647,728
140 Printing and publishing, book and job.....	283	4,686,838	140,200	163,750	2,114,377	2,218,511	284	725	621,808	3,496	1,717,664
141 Printing and publishing, music.....	3	4,650			2,000	2,650	3	1	60	2	1,020
142 Printing and publishing, newspapers and periodicals.....	314	6,507,800	192,115	667,565	2,706,241	2,941,879	860	1,264	1,130,265	8,758	2,056,148
143 Refrigerators.....	3	48,150	3,300	8,000	6,600	30,250	3	8	7,960	48	18,312
144 Roofing and roofing materials.....	84	540,945	76,500	16,175	76,813	371,457	87	62	61,605	541	265,359
145 Saddlery and harness.....	587	2,668,611	199,548	416,317	193,637	1,769,109	667	178	168,117	1,407	660,008
146 Sausage.....	8	25,300			9,300	16,000	3	9	6,500	23	13,600
147 Saws.....	3	312,390		8,650	80,312	223,428		38	40,480	174	109,144
148 Scales and balances.....	4	8,350	1,000	1,000	3,150	3,200	5	1	1,200	13	5,916
149 Sewing machine repairing.....	19	5,415	50	250	1,475	8,640	20			7	4,068
150 Ship and boat building, wooden.....	10	25,380	1,901	2,625	7,627	18,777	12	3	3,070	66	45,909
151 Shirts.....	29	410,030			56,828	353,202	25	67	74,496	968	276,421
152 Show cases.....	5	151,829	16,269	26,000	10,598	98,462	5	12	8,511	133	56,282
153 Slaughtering and meat packing, wholesale.....	31	7,844,054	392,756	1,663,141	1,059,749	4,728,403	27	232	244,475	3,043	1,416,680
154 Slaughtering, wholesale, not including meat packing.....	6	99,970	2,900	200	31,755	65,124	6	10	9,300	59	24,062
155 Soap and candles.....	19	2,291,923	228,951	308,864	462,237	1,291,871	20	153	209,525	559	232,235
156 Sporting goods.....	4	18,700			13,200	5,500	2	2	3,000	63	14,140
157 Starch.....	3	24,700			3,700	21,000	3	25	33,600	70	19,475
158 Stationery goods, not elsewhere specified.....	4	13,000			7,019	10,981	4	5	5,030	20	8,428
159 Steam fittings and heating apparatus.....	4	338,474	15,900	10,000	152,768	159,806	3	30	30,517	199	98,088
160 Steam packing.....	3	17,310			810	17,000	2	5	4,140	18	10,970
161 Stencils and brands.....	4	7,400			6,425	975	4			5	2,077
162 Stereotyping and electrotyping.....	5	47,500			28,000	19,500	8	13	12,130	62	37,670
163 Sugar and molasses, refining.....	14	126,264	3,170	8,540	50,193	64,861	12	16	18,656	32	17,350
164 Surgical appliances.....	11	19,449	725	600	2,990	15,234	12	6	10,800	22	8,403
165 Tinsmithing, coppersmithing, and sheet-iron working.....	576	2,038,604	179,080	333,167	437,282	1,144,075	681	175	137,531	1,618	781,204
166 Tobacco, chewing, smoking, and snuff.....	22	7,020,479	307,050	1,568,905	956,199	4,188,325	17	742	741,291	3,720	1,402,549

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
85	\$15,454			3	\$646	\$2,804	\$612	\$612	\$1,580		\$57,079	\$56,669	\$410	\$90,055	97
184	98,422			1	156	27,846	800	2,209	24,837		557,131	550,697	6,434	816,720	98
553	206,837					40,045	4,500	3,065	32,430		233,910	123,936	109,974	600,432	99
21	5,473					43,991	25	331	43,575	\$60	24,898	21,425	3,473	91,692	100
3,092	1,876,961	23	\$5,425	35	7,714	6,137,846	31,874	151,076	5,954,896		3,073,011	2,753,999	319,012	13,776,905	101
45	21,960	3	445			39,903	6,318	865	32,725		83,166	82,051	1,115	199,130	102
301	183,420	81	20,013	3	400	64,240	12,372	1,423	44,469	5,971	217,436	213,508	3,928	687,848	103
43	24,973	4	780	5	749	15,349	11,598	609	3,242		27,937	25,896	2,041	133,767	104
181	89,652	30	11,309	48	19,984	38,106	18,270	1,207	18,629		245,718	243,294	2,424	545,883	105
5,886	1,985,223	51	8,010	106	19,426	321,300	15,476	63,631	242,193		6,410,216	6,406,718	3,498	11,177,629	106
1,955	1,008,145			44	7,894	487,641	21,506	21,490	219,365	225,280	2,247,720	2,216,760	30,960	4,417,871	107
53	40,599					20,371	2,900	2,451	15,020		210,225	197,945	12,280	318,808	108
18	11,250					11,250	1,455	16	600		64,210	64,210		70,000	109
713	331,723			4	685	513,837	14,276	3,371	35,308	4,813	402,207	382,631	19,526	1,138,566	110
8,517	2,242,972	3	877			513,837	21,188	6,416	68,979	417,904	3,519,419	3,506,461	12,958	7,757,613	111
181	90,514	45	13,785	31	6,251	34,352	11,648	1,451	21,158	100	371,993	367,676	4,317	638,952	112
20	11,597	389	69,508	9	1,000	10,860	7,551	394	2,915		230,518	229,471	1,042	455,598	113
29	15,530	1,387	361,843	37	4,466	227,337	188,354	16,596	72,877	60	1,697,643	1,690,164	7,479	3,240,618	114
335	166,107	16	3,312	37	6,647	102,824	20,975	3,705	77,774	370	303,325	297,075	6,250	895,862	115
68	31,035	2	350	4	540	11,455	11,455	1,155	5,581		75,534	75,534	1,159	153,500	116
75	50,762	1	800	3	475	6,803	4,272	191	1,340	1,000	23,396	21,612	1,784	107,727	117
326	168,451			1	203	41,193	11,243	3,116	24,580	2,255	489,155	485,929	3,226	967,794	118
17	6,768	4	988			4,767	2,130	118	2,519		27,751	26,513	1,238	63,433	119
32	19,360					2,223	1,224	142	857		10,907	10,330	527	45,181	120
28	13,916					3,555	186	362	3,007		12,457	12,355	102	36,490	121
6	3,120					2,521	1,120	273	1,123		24,130	23,915	215	45,310	122
51	30,626	3	1,650	2	500	18,366	8,830	163	8,323	500	121,703	119,993	1,710	235,610	123
1,797	1,102,412	1	555	27	5,036	140,534	51,263	3,963	62,428	22,930	807,780	804,669	3,121	2,313,521	124
456	217,537	24	6,324	8	1,319	109,934	19,659	15,827	134,498		3,234,423	3,203,939	30,484	4,323,355	125
503	293,159	1	250	10	1,912	76,951	62,892	1,865	22,194		267,564	267,564	617	869,297	126
364	160,464	275	66,064	37	4,054	849,540	34,033	4,877	803,720	6,850	849,385	831,094	18,791	2,912,781	127
2,433	1,194,074			10	1,932	190,395	18,323	9,002	97,520	64,943	1,652,881	1,622,471	30,410	3,729,895	128
27	15,395	61	16,712	3	486	61,754	4,290	297	57,167		156,854	156,516	338	367,243	129
237	131,555	64	20,004			105,253	180	2,852	102,216		573,717	564,667	9,050	1,022,496	130
240	129,345	133	44,070	15	2,397	96,275	64,892	3,363	24,421	3,099	246,331	241,240	5,091	892,856	131
40	20,235	1	575	5	775	9,305	2,952	111	4,662	580	10,136	8,479	1,657	74,597	132
113	69,188	90	14,095	7	1,040	62,372	9,010	1,317	51,545		635,948	629,918	6,030	985,023	133
233	78,447	17	3,025	41	5,719	15,287	1,571	725	15,930		95,313	93,108	2,205	260,503	134
454	203,109	5		5	720	34,410	9,309	1,265	17,846	5,490	173,635	173,292	343	682,233	135
27	13,510	4	1,500	4	1,488	8,333	1,750	138	1,395		16,993	15,973	991	63,237	136
339	177,160			8	1,960	18,933	10,610	1,545	6,733		233,927	233,067	5,860	543,076	137
1,493	906,175			40	7,521	155,101	74,563	5,758	54,323	20,452	1,739,205	1,735,917	13,288	3,903,559	138
1,536	643,641			21	4,037	191,727	5,207	13,716	169,611	3,853	369,957	365,331	164,976	1,662,150	139
2,490	1,449,369	339	239,324	167	27,971	780,325	136,142	14,629	282,713	346,836	2,500,732	2,438,050	62,732	6,095,752	140
1	720	1	300			2,137	234	103	995		720	700	20	6,100	141
2,747	1,339,571	567	161,528	444	55,049	1,385,340	182,513	25,351	743,524	423,952	2,204,735	2,136,016	68,719	9,254,097	142
48	13,312					7,969	1,760	359	5,250		25,256	23,418	1,838	75,513	143
540	235,159			1	200	62,232	15,027	1,713	45,487		657,299	652,431	4,868	1,344,853	144
1,324	639,930	52	14,517	31	5,511	179,392	80,110	15,404	53,933	30,635	2,255,525	2,237,993	17,532	4,143,324	145
23	13,500					2,651	1,700	131	730		73,452	72,822	640	121,450	146
174	109,144					20,115	5,100	1,937	13,078		147,777	142,777	5,000	432,873	147
13	5,916					1,233	801	53	425		5,854	5,423	431	22,225	148
7	4,063					2,371	1,818	78	475		7,180	7,061	119	22,012	149
63	45,909					6,342	2,380	82	3,230	150	31,914	31,034	880	93,367	150
65	40,510	376	232,154	23	3,757	37,333	23,477	1,207	11,149	2,000	450,373	443,216	7,157	1,009,335	151
129	57,664			4	613	14,561	1,425	446	12,690		38,062	36,814	1,248	223,209	152
2,920	1,392,645	8	2,100	115	21,875	350,599	8,005	14,742	327,352	500	33,391,243	33,235,309	155,934	42,229,127	153
57	23,312			2	250	13,663	4,300	575	8,793		716,394	713,469	3,425	811,753	154
423	203,403	132	23,546	1	231	234,127	2,737	9,434	221,956		2,455,556	2,427,029	28,527	3,450,733	155
13	6,860	50	7,280			2,790	1,460	45	1,235		24,403	23,903	500	53,610	156
19	10,430	51	9,045			12,020	1,620		10,400		126,610	126,250	360	230,000	157
14	7,330	2	460	4	583	4,396	1,413	58	2,655	265	7,993	7,553	440	32,214	158
199	93,033					27,933	4,630	349	17,333	5,123	135,404	132,422	27,982	439,437	159
18	10,970					3,093	1,320	81	1,697		29,139	29,139	16	53,000	160
3	1,762			2	315	1,227	672	18	237	300	1,313	1,793	20	3,500	161
54	36,250			8	1,420	7,373	4,340	317	3,215		18,541	15,935	2,606	102,140	162
30	18,332	2	463			19,452	925	808	17,720		222,994	222,994	2,967	357,239	163
11	5,279	11	3,124			10,726	2,551	93	7,332	200	11,632	11,616	72	57,737	164
1,546	763,253	10	2,314	62	10,632	184,516	31,293	10,655	80,293	12,365	1,576,102	1,552,500	23,602	3,433,493	165
1,837	841,414	1,747	539,671	36	21,464	12,511,008	7,544	45,091	12,453,373		8,255,857	8,193,927	56,930	25,101,446	166

TABLE 7.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
167 Tobacco, cigars and cigarettes	580	\$990,758	\$48,908	\$96,595	\$47,944	\$802,311	642	78	\$50,167	1,511	\$694,655
168 Tools, not elsewhere specified	6	75,900	2,500	4,000	39,800	29,200	3	8	6,840	52	33,920
169 Toys and games	8	26,475	4,000	8,000	6,400	13,075	2	1	500	29	12,696
170 Trunks and valises	21	388,799	1,500	2,000	27,919	357,880	24	47	66,454	365	163,375
171 Type founding	3	252,175			120,500	131,675		20	20,120	146	64,359
172 Typewriter repairing	13	25,189			1,905	23,275	4	8	5,000	33	20,578
173 Umbrellas and canes	7	49,705			2,460	47,245	7	4	2,191	17	5,573
174 Upholstering materials	5	75,800	14,500	8,000	10,500	42,800	2	6	3,157	38	15,979
175 Varnish	7	165,323	17,000	8,660	19,717	119,946	2	19	27,194	27	17,861
176 Vinegar and cider	28	230,577	14,180	29,110	66,281	121,066	25	81	31,682	92	45,172
177 Washing machines and clothes wringers	7	158,242	34,700	31,300	33,470	58,772	6	7	5,760	118	40,855
178 Watch, clock, and jewelry repairing	462	451,715	27,405	65,070	188,576	230,664	495	44	35,146	329	176,737
179 Window shades	6	244,145	80	200	4,065	238,800	4	10	11,060	56	22,186
180 Wirework, including wire rope and cable	25	808,759	50,160	47,425	154,985	556,199	24	45	71,634	345	179,562
181 Wood, turned and carved	34	228,228	24,010	26,755	59,645	112,818	40	25	23,780	261	99,899
182 Woodenware, not elsewhere specified	4	6,550			3,550	3,000	5			4	1,272
183 Woolen goods	25	490,747	36,185	89,450	170,475	194,687	18	18	20,928	237	63,314
184 Wool pulling	4	65,420	400	500	15,120	49,400	4	1	1,200	33	19,759
185 Zinc, smelting and refining	5	804,029	25,500	288,000	77,300	413,229	1	17	36,830	500	268,196
186 All other industries ¹	101	9,824,653	1,038,225	1,141,522	2,620,440	5,024,471	64	427	454,420	3,291	1,815,114

¹ Embraces axle grease, 2; bags, other than paper, 2; bags, paper, 2; bells, 2; blacking, 2; bluing, 2; boot and shoe findings, 2; boot and shoe uppers, 2; boots and shoes, rubber, 1; calcium lights, 1; cloth, sponging and refinishing, 1; clothing, horse, 1; cordage and twine, 1; cork, cutting, 2; cotton, compressing, 2; cotton goods, 2; dentists' materials, 1; drug grinding, 1; explosives, 1; fire extinguishers, chemical, 1; fireworks, 1; fish, canning and preserving, 1; foundry supplies, 1; fur hats, 1; furs, dressed, 1; galvanizing, 1; gas and oil stoves, 1; gas machines and meters, 2; gloves and mittens, 2; glue, 2; gold and silver, leaf and foil, 1; hand knit goods, 1; hardware, saddlery, 1; hosiery and knit goods, 2; ink, printing, 1; ink, writing, 1; iron and steel, bolts, nuts, washers, and rivets, 2; iron and steel, doors and shutters, 1; iron and steel, forgings, 1; ivory and bone work, 1; japanning, 2; jewelry and instrument cases, 1; jute and jute goods, 1; kindling

TABLE 8.—MANUFACTURES IN CITIES

JOPLIN.

1 All industries	123	\$1,411,495	\$160,690	\$244,769	\$193,970	\$812,076	146	52	\$53,808	951	\$516,080	
2 Bicycle and tricycle repairing	4	4,300	1,800	100	1,600	800	5			4	1,720	
3 Blacksmithing and wheelwrighting	16	45,327	15,550	3,925	3,470	22,882	22			44	27,254	
4 Boots and shoes, custom work and repairing	7	2,135		130	1,255	750	8			4	2,372	
5 Carriages and wagons	3	17,750	6,500	4,100	1,850	5,800	4	1	500	31	15,470	
6 Clothing, men's, custom work and repairing	10	13,575			1,500	12,075	10	1	500	47	30,156	
7 Confectionery	3	4,700			1,800	2,900	5			14	4,947	
8 Foundry and machine shop products	11	310,100	48,800	41,750	65,700	158,850	12	7	5,640	243	157,758	
9 Lumber, planing mill products, including sash, doors, and blinds	4	29,640	3,740	4,600	14,200	7,100	4	2	1,896	29	18,820	
10 Millinery, custom work	10	19,632			357	19,275	14			37	7,764	
11 Plumbing, and gas and steam fitting	4	18,575			1,775	16,800	5	1	700	23	16,934	
12 Saddlery and harness	3	5,100			600	4,500	5			5	2,402	
13 Tin-smithing, copper-smithing, and sheet-iron working	4	5,164		800	2,625	1,739	4			18	7,680	
14 Tobacco, cigars and cigarettes	7	6,110	700	675	810	4,425	9			40	21,422	
15 Watch, clock, and jewelry repairing	7	3,410			1,650	1,860	7			7	4,194	
16 All other industries ¹	81	925,977	88,600	188,679	95,378	553,320	32	40	44,572	410	197,187	

¹ Embraces awnings, tents, and sails, 1; bread and other bakery products, 2; brick and tile, 1; carpentering, 1; cars and general shop construction and repairs by steam railroad companies, 1; clothing, women's, dressmaking, 2; coke, 1; dyeing and cleaning, 1; flouring and grist mill products, 2; lead, smelting and refining, 1; liquors, malt, 1; mineral and soda waters, 2; monuments and tombstones, 1; painting, house, sign, etc., 2; patent medicines and compounds, 1; paving

KANSAS CITY.

1 All industries	1,797	\$26,437,307	\$2,246,097	\$2,286,955	\$11,947,799	\$10,006,456	1,949	1,514	\$1,449,221	15,381	\$7,783,652	
2 Agricultural implements	4	788,903	84,500	42,000	177,338	463,065	3	36	52,854	150	100,017	
3 Bicycle and tricycle repairing	27	10,431		150	6,071	3,060	27			22	9,614	
4 Blacksmithing and wheelwrighting	127	127,310	24,650	26,430	24,990	51,190	148			130	119,008	
5 Bookbinding and blank book making	3	7,000			4,000	3,000	5			14	6,400	
6 Boots and shoes, custom work and repairing	123	22,475	650	950	9,025	11,850	122			49	24,841	
7 Bottling	4	143,500	68,000	42,000	9,500	27,000		15	15,980	40	15,785	
8 Boxes, wooden packing	3	6,750			1,750	5,000	2			27	12,030	
9 Bread and other bakery products	66	141,135	27,690	20,950	42,228	50,237	72	28	14,350	232	130,269	
10 Brick and tile	7	483,286	150,733	140,029	94,033	98,485	7	13	13,840	277	149,691	
11 Brooms and brushes	7	16,930	6,900	1,350	1,450	6,230	8			27	12,200	
12 Carpentering	174	355,610	63,100	27,335	38,253	226,922	205	14	15,230	858	572,367	
13 Carriage and wagon materials	3	12,900			1,200	11,700	1	3	2,000	16	7,545	
14 Carriages and wagons	25	89,430	6,500	9,650	15,300	59,480	33	2	2,600	147	75,920	
15 Cars and general shop construction and repairs by steam railroad companies	5	897,288	63,250	174,926	64,265	604,847		24	24,184	505	285,901	
16 Cheese, butter, and condensed milk, factory product	3	12,300			7,500	4,800	5	2	1,700	12	8,450	

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1,227	\$642,145	149	\$33,745	135	\$18,765	\$397,776	\$61,422	\$7,088	\$328,494	\$772	\$1,026,984	\$1,021,488	\$5,501	\$2,745,986	167
52	83,920					3,352	2,280	246	826		33,657	31,912	1,745	102,985	168
18	10,730	7	1,470	4	496	2,255	147	120	1,953	25	8,615	8,275	340	83,900	169
342	156,880	21	6,230	2	265	75,340	36,686	2,094	30,066	600	276,090	272,632	3,458	716,491	170
92	50,296	45	12,742	9	1,321	25,578	6,140	816	19,622		77,963	75,120	2,843	280,434	171
81	20,290			2	288	4,452	3,420	17	1,015		10,251	10,251		61,770	172
9	1,950			6	1,131	5,655	3,474	80	2,101		30,995	30,798	197	58,785	173
34	15,459	8	2,492	4	520	3,655	1,292	501	1,802		28,704	27,650	1,054	60,940	174
27	17,361			10	3,668	10,368	2,990	687	6,691		125,021	123,575	1,446	231,168	175
83	43,106	8	1,916	1	150	47,153	5,634	1,010	39,309	1,200	163,522	158,617	4,905	447,641	176
118	40,855					13,937	1,600	1,597	10,740		130,605	128,820	1,785	224,639	177
289	168,954	13	3,000	27	4,774	92,160	54,819	3,041	17,114	17,186	213,331	207,419	5,912	854,970	178
42	13,846	8	2,300	6	1,040	12,678	4,525	541	7,512		243,030	241,510	1,565	303,775	179
321	176,575			24	3,987	47,762	6,895	2,621	34,671	3,675	746,361	736,786	3,565	1,203,830	180
253	99,457			3	382	16,285	5,532	855	9,898		302,782	300,521	2,261	545,103	181
3	1,137	1	135			1,023	619	10	394		4,094	3,854	240	10,600	182
139	42,427	79	18,208	19	2,539	21,067	148	2,271	18,648		206,579	201,295	5,284	348,974	183
33	19,759					4,063	1,530	233	2,300		2,958	1,046	1,910	45,800	184
600	268,196					36,903	2,400	2,883	31,620		1,651,387	1,557,853	93,534	2,011,724	185
2,168	1,023,222	884	250,672	239	39,220	580,915	57,618	36,393	479,424	7,430	9,203,033	9,056,668	116,375	13,055,200	186

wood, 1; lapidary work, 1; lasts, 2; musical instruments, pianos and materials, 1; needles and pins, 2; nets and seines, 1; oil, castor, 1; oil, cottonseed and cake, 2; oil, linseed, 2; oleomargarine, 1; paper goods, not elsewhere specified, 2; paper patterns, 2; phonographs and graphophones, 1; printing materials, 2; pumps, not including steam pumps, 1; regalia and society banners and emblems, 2; registers, car fare, 1; rubber and elastic goods, 1; screws, machine, 1; sewing machines and attachments, 1; soda water apparatus, 2; springs, steel, car and carriage, 1; stamped ware, 2; taxidermy, 2; tin and terne plate, 1; whips, 2; windmills, 1; wood, preserving, 1; wool scouring, 1.

BY SPECIFIED INDUSTRIES: 1900.

JOPLIN.

875	\$500,530	66	\$14,073	10	\$1,477	\$110,962	\$21,164	\$6,518	\$33,062	\$218	\$1,854,817	\$1,802,577	\$52,240	\$2,961,793	1
4	1,720					696	570	51	75		2,679	2,542	137	9,095	2
42	26,890			2	364	1,990	1,416	265	309		31,660	30,216	1,444	91,246	3
4	2,372					644	597	11	36		4,294	4,283	61	11,612	4
31	15,470					619	84	92	325	113	13,242	12,750	492	88,920	5
41	28,021	6	2,135			4,638	3,020	23	1,685		52,444	51,657	787	111,845	6
8	3,662	6	1,285			2,186	1,560	81	545		10,864	10,736	128	32,400	7
243	157,758					3,151	660	662	1,729	100	324,335	314,551	11,784	532,421	8
28	18,935			1	125	1,146	10	226	910		16,430	15,765	665	51,700	9
23	16,934	37	7,764			4,015	3,310	145	560		45,844	45,730	114	85,874	10
						1,970	1,770	23	177		70,109	69,969	140	97,307	11
5	2,402					1,052	840	130	82		8,887	8,882	55	15,125	12
13	7,680					711	592	9	110		6,509	6,407	102	20,822	13
32	20,334	4	624	4	464	7,127	687	62	6,732		23,123	22,988	135	61,991	14
7	4,194					1,454	1,240	152	62		2,960	2,912	48	16,260	15
894	194,898	13	2,265	8	524	79,563	4,808	4,586	70,169		1,239,437	1,203,289	36,148	1,725,176	16

and paving materials, 1; photography, 2; pottery, terra cotta, and fire-clay products, 1; printing and publishing, book and job, 2; printing and publishing, newspapers and periodicals, 2; roofing and roofing materials, 2; zinc, smelting and refining, 1.

KANSAS CITY.

11,314	\$6,899,848	3,268	\$830,195	200	\$53,609	\$3,545,069	\$494,411	\$128,183	\$1,906,552	\$1,015,923	\$18,214,198	\$17,738,730	\$425,468	\$36,527,392	1
156	100,017					35,244	2,220	2,343	29,751	930	162,116	150,544	5,572	438,089	2
19	3,341			5	670	4,639	4,194	83	362		14,002	13,272	730	49,890	3
182	115,031			14	3,970	22,849	18,063	886	3,550		120,221	112,311	7,910	415,062	4
9	5,430	5	950			893	730	23	86		4,240	3,800	440	19,350	5
47	24,535			2	306	12,731	11,015	219	397		39,438	37,544	1,894	154,471	6
32	13,585	3	1,200	5	1,000	23,658	1,500	620	21,538		119,831	119,111	720	218,914	7
25	11,480			2	600	4,512	1,895	157	2,460		24,578	23,932	646	50,000	8
210	125,037	14	3,543	8	1,887	30,593	16,493	1,325	12,631		372,743	359,280	13,463	656,852	9
276	143,491			1	200	34,311	7,200	2,532	22,600	1,979	83,306	18,904	69,302	363,603	10
26	12,156			1	104	819	330	233	266		22,465	22,156	309	46,248	11
854	571,376			4	991	819,464	11,275	1,504	80,156	776,520	1,299,358	1,297,351	2,007	3,204,811	12
13	6,580	3	963			1,300	1,525	75	200		33,145	32,925	220	54,500	13
145	75,420			2	500	12,024	8,469	564	2,291	700	101,789	99,670	2,119	255,307	14
505	288,901					19,939		17,734	2,255		244,946	233,262	11,684	578,020	15
10	8,160			2	300	1,773	1,170	43	560		38,073	35,865	2,208	57,050	16

TABLE 8.—MANUFACTURES IN CITIES

KANSAS CITY—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
17 China decorating	8	\$2,080			\$955	\$1,725	4		1	\$600	
18 Clothing, men's, custom work and repairing.	110	266,240		\$75	14,960	251,205	118	\$17,760	420	252,533	
19 Clothing, men's, factory product	7	810,580			44,960	265,570	6	11	1,896	284,656	
20 Clothing, women's, dressmaking	48	40,465	\$1,750	3,500	10,980	24,225	52	9	323	110,776	
21 Clothing, women's, factory product	4	27,100	3,500	1,000	4,000	18,000	4	8	102	33,340	
22 Coffee and spice, roasting and grinding.	3	127,684			23,100	104,584	1	22	41	14,459	
23 Confectionery	17	1,250,035	70,000	178,000	641,700	860,885	20	91	765	209,235	
24 Dyeing and cleaning	25	13,155			9,745	3,410	23	1	69	34,120	
25 Electrical construction and repairs	6	59,975			5,775	54,200	9	17	61	83,843	
26 Engraving and diesinking	3	8,850			3,750	4,600	2		22	12,460	
27 Flouring and grist mill products.	11	1,034,190	73,705	168,749	267,741	518,995	9	49	106	58,004	
28 Food preparations	5	8,845			2,395	6,450	5	1	7	3,760	
29 Foundry and machine shop products.	35	477,407	20,000	48,800	170,842	237,765	25	41	428	245,549	
30 Fur goods	4	41,000	2,000	2,000	1,750	35,250	3	6	48	17,282	
31 Furniture, cabinetmaking, repairing, and upholstering.	44	37,495	5,950	9,000	11,320	31,185	40	5	114	71,835	
32 Furniture, factory product	7	137,966	36,000	36,300	8,516	57,150	9	15	102	51,001	
33 Hand stamps	4	7,800			4,500	3,300	3		18	9,734	
34 Hats and caps, not including fur hats and wool hats	3	11,800			3,100	3,700	6	2	19	8,490	
35 Ice, manufactured	5	207,101	56,000	49,200	84,500	17,401	6	13	42	29,960	
36 Jewelry	4	12,300			5,900	6,400	4	1	23	17,865	
37 Lamps and reflectors	4	7,400			2,200	5,200	6	1	6	3,750	
38 Liquors, malt	4	1,301,599	221,914	400,860	214,528	464,297	2	44	235	136,693	
39 Lock and gun smithing	12	9,925			5,005	4,920	13		8	4,150	
40 Looking-glass and picture frames	6	9,900			1,825	8,075	7		17	7,658	
41 Lumber, planing mill products, including sash, doors, and blinds.	9	737,072	161,340	69,500	123,501	377,731	10	28	400	241,558	
42 Marble and stone work	12	143,993	66,000	5,700	31,025	41,268	13	5	147	33,673	
43 Masonry, brick and stone	90	315,232	13,370	7,880	51,721	242,321	111	8	1,060	597,158	
44 Mattresses and spring beds	7	41,435			16,285	25,200	8	1	55	29,890	
45 Millinery and lace goods	3	630			105	625	4		10	2,950	
46 Millinery, custom work	80	261,391			4,316	257,075	25	109	233	78,674	
47 Mineral and soda waters	3	130,750	15,000	45,000	51,700	19,050	12	10	24	12,561	
48 Models and patterns	7	7,470	1,400	360	4,010	1,700	8		14	9,725	
49 Monuments and tombstones	3	17,025		1,000	925	15,100	3	3	22	12,800	
50 Musical instruments and materials, not specified.	3	8,315			640	7,675	2	1	23	13,840	
51 Optical goods	6	25,800			9,550	16,150	6	6	39	23,770	
52 Painting, house, sign, etc	72	54,088	3,875	4,285	13,213	32,715	91	1	300	188,405	
53 Paints	6	230,823		3,500	23,755	203,568	3	25	58	29,646	
54 Paper hanging	14	15,205			3,545	11,660	14	4	90	59,785	
55 Patent medicines and compounds	19	38,145			5,300	32,345	16	9	43	16,655	
56 Paving and paving materials	28	1,033,534	72,340	18,206	63,792	879,696	33	33	685	340,011	
57 Photography	29	53,955	125	80	20,670	33,120	33	3	76	46,411	
58 Plastering and stucco work	22	24,045	4,800	2,850	4,360	11,535	33	1	123	79,414	
59 Plumbing, and gas and steam fitting	46	253,685	6,200	14,100	21,985	215,350	33	33	383	265,561	
60 Printing and publishing, book and job	63	720,010	2,200	5,000	399,716	313,094	62	166	804	419,784	
61 Printing and publishing, newspapers and periodicals.	41	702,812	5,000	11,100	306,587	380,125	39	152	616	612,428	
62 Roofing and roofing materials	10	95,105	2,500	2,500	23,176	66,929	7	20	92	48,568	
63 Saddlery and harness	29	272,790	3,325	2,400	22,996	244,039	33	28	316	182,913	
64 Sewing machine repairing	3	725			225	500	2		2	1,500	
65 Shirts	3	47,395			6,155	41,210	5	3	134	44,839	
66 Surgical appliances	3	1,250			525	725	2	4	4	2,124	
67 Tinsmithing, coppersmithing, and sheet-iron working.	77	207,455	14,500	24,050	33,092	130,813	95	34	251	142,553	
68 Tobacco, cigars and cigarettes	30	51,705	250	350	7,200	43,905	41	12	112	61,074	
69 Trunks and valises	3	46,065			19,865	35,200	9	5	38	19,845	
70 Typewriter repairing	2	3,750			1,075	2,675	2		13	7,593	
71 Vinegar and cider	5	78,180	8,750	20,340	23,723	20,373	3	7	24	13,391	
72 Watch, clock, and jewelry repairing	47	98,030	1,000	750	26,865	69,415	47	25	118	70,105	
73 Window shades	3	237,320	80	200	3,440	234,100	2	10	51	19,316	
74 Wirework, including wire rope and cable.	5	48,225			11,100	37,125	3	1	33	22,880	
75 All other industries ¹	97	11,902,748	871,750	614,500	3,570,006	1,346,492	93	277	2,012	913,851	

¹ Embraces ammunition, 2; artificial limbs, 2; awnings, tents, and sails, 2; babbit metal and solder, 1; baking and yeast powders, 2; billiard tables and materials, 1; boot and shoe uppers, 1; boots and shoes, factory product, 1; boxes, cigar, 1; boxes, fancy and paper, 2; brass castings and brass finishing, 2; brassware, 1; bridges, 1; buttons, 1; carpets, rag, 1; cars and general shop construction and repairs by street railroad companies, 1; cheese and butter, urban dairy products, 1; cleansing and polishing preparations, 1; corsets, 1; electrical apparatus and supplies, 2; electroplating, 2; enameling and enameled goods, 1; engraving, steel, including plate printing, 2; engraving, wood, 1; envelopes, 1; files, 1; flags and banners, 1; flavoring extracts, 2; furs, dressed, 1; gas and lamp fixtures, 1; gas, illuminating and heating, 1; gas machines and meters, 1; glass, cutting, staining, and ornamenting, 2; hairwork, 1; hardware, 1; house furnishing goods, not elsewhere specified, 2; ink, writing, 1; iron and steel, 1; iron and steel, bolts, nuts, washers, and rivets, 1; iron and steel, doors and shutters, 1;

BY SPECIFIED INDUSTRIES: 1900—Continued.

KANSAS CITY—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
357	\$231,924	1 58	\$600 19,496	5	\$1,113	\$557 164,038	\$890 51,510	\$7 1,192	\$160 12,039	\$99,297	\$3,670 885,457	\$3,640 384,042	\$80 1,415	\$7,700 1,006,509	17 18
98	32,412	1,266	252,100	2	144	21,939	9,350	2,239	10,210	140	737,055	728,645	8,410	1,123,739	19
10	8,563	307	101,422	6	788	16,594	12,611	155	3,828		150,404	149,978	426	331,143	20
1	400	101	32,940			8,920	1,410	500	2,010		65,275	64,880	395	130,455	21
18	11,466	2	420	21	2,573	20,601	4,680	571	15,350		143,090	141,140	1,950	242,500	22
350	132,057	412	70,553	3	625	209,521	0,050	2,799	200,672		1,300,479	1,289,362	11,117	1,955,886	23
54	29,325	14	4,520	1	275	8,600	7,074	08	1,133	325	10,285	8,822	1,463	82,415	24
61	33,845					7,195	3,550	165	3,530		180,279	179,818	461	261,503	25
17	11,280	5	1,180			2,059	1,764	10	285		10,385	10,125	210	34,800	26
102	56,415	3	1,200	1	389	45,912	3,645	2,304	39,463		1,772,886	1,746,525	26,311	2,070,111	27
5	2,920	1	430	1	360	605	581	23	61		5,484	5,269	215	14,779	28
428	248,889	1	260	1	400	40,756	13,285	1,412	25,909	150	518,804	509,428	9,376	1,042,448	29
10	6,080	38	11,182			5,034	3,300	174	1,500		59,975	59,075	800	108,588	30
109	70,335	4	1,400	1	100	11,778	9,103	421	2,284		67,098	65,806	1,292	210,805	31
85	47,301	5	2,420	12	1,280	12,770	4,455	2,344	5,971		128,755	125,079	3,676	245,699	32
16	9,500			2	294	1,993	1,570	53	370		7,740	7,480	310	28,950	33
11	6,450	8	2,040			1,730	1,140	40	550		10,495	10,305	190	30,435	34
42	29,960					7,217	1,320	1,058	4,844		57,733	14,745	42,988	138,428	35
18	16,390	3	650	2	325	3,060	1,215	75	1,520	250	25,032	24,835	197	55,600	36
5	3,450	1	300			957	470	12	175	800	7,180	7,170	10	19,380	37
262	181,178	23	5,425			622,089	4,240	9,088	608,761		250,017	217,547	32,470	1,309,027	38
4	3,320	3	680	1	200	2,716	2,134	32	550		7,235	7,035	200	26,080	39
17	7,058					2,507	2,147	25	335		17,300	17,710	150	40,743	40
399	241,484			1	74	11,579	902	3,107	7,450		532,142	530,584	1,558	876,644	41
146	83,558			1	115	7,116	2,740	203	2,363	1,800	96,783	95,364	1,424	232,466	42
1,057	598,281			3	877	45,758	4,046	492	17,395	23,320	859,081	840,258	6,823	1,816,756	43
44	26,000	9	3,330	2	510	4,332	3,710	242	930		31,723	31,073	650	144,015	44
15	10,200	10	2,950			333	322	2	65		5,303	5,003		9,700	45
22	12,176	217	63,174	1	300	63,269	25,271	10,178	32,820		460,408	460,128	275	318,897	46
13	9,550			2	385	9,726	1,820	384	7,152	370	20,851	20,163	688	74,761	47
22	12,800			1	175	1,123	836	37	250		5,639	5,329	310	25,235	48
28	13,840					6,910	1,160	225	4,025	1,500	47,480	47,405	75	82,000	49
36	22,720	3	1,050			600	468	40	92		6,990	6,620	370	27,200	50
296	157,250	1	555	3	600	21,708	5,554	183	4,796	11,175	122,570	122,181	389	426,236	52
49	25,738	9	3,908			40,482	6,340	772	33,370		466,335	464,840	2,045	622,677	53
90	59,785					8,578	1,976	32	1,565		50,737	50,632	105	136,334	54
85	13,085			2	350	24,879	4,796	160	19,923		38,126	37,781	345	133,540	55
682	339,556	11	3,220	3	455	88,212	1,685	3,363	53,176	29,988	739,998	738,490	6,508	1,287,299	56
48	35,017	27	11,212	1	182	17,170	18,971	558	2,646		27,640	27,435	205	131,622	57
123	79,414					4,291	399	75	842	2,975	58,946	58,825	121	178,593	58
377	264,386			6	1,275	24,866	12,752	1,058	8,406	2,560	433,809	431,762	2,047	911,602	59
598	355,831	181	59,184	25	4,769	102,335	30,320	3,244	56,581	12,180	833,089	831,942	15,147	1,187,253	60
548	433,471	54	26,479	14	2,478	237,242	30,943	2,405	169,164	34,730	430,461	419,926	10,535	1,532,763	61
92	45,563					16,131	2,715	677	12,739		144,607	143,069	1,538	269,998	62
298	156,726	10	4,502	3	1,685	27,307	15,207	1,054	11,046		605,307	602,679	2,628	925,287	63
2	1,500					577	450	12	115		2,235	2,235	50	6,337	64
17	12,135	117	32,754			4,715	2,846	112	1,257	500	65,874	65,325	549	139,720	65
2	1,512	2	612			6,379	839	15	6,025		2,600	2,600		21,380	66
238	139,613	1	480	12	2,460	39,000	16,733	1,321	10,796	10,150	205,521	202,334	3,187	554,713	67
94	56,640	13	3,599	5	835	26,740	4,336	293	22,061		80,358	79,963	395	224,303	68
85	19,100	1	480	2	265	6,344	4,560	314	1,970		38,145	37,920	225	92,241	69
13	7,583					1,430	1,200	2	238		4,655	4,655		16,470	70
22	12,851	1	300	1	150	5,383	1,284	499	3,600		40,503	36,910	3,593	82,400	71
100	87,025	8	1,260	10	1,820	13,493	10,303	289	2,896		89,226	87,355	1,871	271,303	72
38	16,276	7	2,000	6	1,040	11,603	3,500	580	7,573		229,670	228,170	1,500	234,500	73
82	22,575			1	305	6,736	1,820	81	1,260	3,575	102,597	101,562	1,035	158,000	74
1,621	813,823	805	81,718	86	13,310	412,910	41,289	42,533	329,033		3,000,618	2,995,484	95,134	5,555,641	75

ironwork, architectural and ornamental, 1; kaolin and other earth grinding, 1; lime and cement, 1; liquors, vinous, 1; lithographing and engraving, 2; lumber and timber products, 1; mantels, slate, marble, and marbleized, 2; mirrors, 1; mucilage and paste, 2; oil, castor, 1; oil, linseed, 1; oleomargarine, 1; perfumery and cosmetics, 1; phonographs and graphophones, 1; photographic materials, 1; photolithographing and photoengraving, 2; pickles, preserves, and sauces, 2; plumbers' supplies, 2; pottery, terra cotta, and fire-clay products, 1; printing materials, 1; refrigerators, 1; sausage, 1; show cases, 2; soap and candles, 2; stamped ware, 1; starch, 1; stencils and brands, 1; stereotyping and electrotyping, 2; tobacco, chewing, smoking, and snuff, 1; tools, not elsewhere specified, 1; toys and games, 1; varnish, 2; washing machines and clothes wringers, 1; wood, turned and carved, 2.

TABLE 8.—MANUFACTURES IN CITIES

ST. JOSEPH.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 All industries	440	\$11,068,825	\$983,535	\$1,907,849	\$3,823,616	\$4,853,825	462	562	\$516,083	7,429	\$3,109,647
2 Bicycle and tricycle repairing	3	1,420		150	250	1,020	3			4	2,480
3 Blacksmithing and wheelwrighting	82	16,220	2,800	6,050	2,205	5,165	44			29	16,418
4 Boots and shoes, custom work and repairing.	15	9,155	1,190	3,770	1,935	2,210	15			9	5,285
5 Boots and shoes, factory product	4	181,033			37,819	93,264	3	12	10,928	200	72,876
6 Bread and other bakery products	24	1,161,647	82,000	184,650	590,127	324,870	22	72	53,074	389	113,797
7 Brick and tile	10	159,485	19,000	47,866	28,108	63,611	10	4	4,000	236	94,175
8 Carpentering	25	34,555	3,820	2,935	4,180	23,550	27			174	125,489
9 Carriages and wagons	9	87,570	18,200	20,650	8,105	40,615	10	3	1,960	74	39,500
10 Cars and general shop construction and repairs by steam railroad companies.	4	260,887	54,000	96,000	57,000	53,887		15	15,060	552	304,869
11 Clothing, men's, custom work and repairing.	23	54,545	8,000	4,000	2,745	44,800	26	3	3,300	100	52,624
12 Clothing, men's, factory product	9	858,973	48,000	77,000	60,124	673,840	10	61	98,790	1,683	506,418
13 Clothing, women's, dressmaking	6	1,890			1,000	800	4	2	1,700	50	9,510
14 Coffee and spice, roasting and grinding.	3	112,000	20,000	17,000	11,000	64,000	2	2	2,800	36	11,964
15 Confectionery	10	271,412	27,100	31,600	40,824	171,888	14	38	31,247	145	53,385
16 Cooperage	4	42,205	9,000	3,000	5,835	24,870	5	2	1,050	63	19,449
17 Dyeing and cleaning	4	8,950	2,000	2,000	2,275	2,075	4			13	4,720
18 Electrical construction and repairs	4	11,880			1,080	10,800	3	2	2,400	19	12,400
19 Flouring and grist mill products.	5	576,000	67,000	125,000	178,000	206,000	2	25	29,994	59	35,013
20 Foundry and machine shop products.	11	194,533	61,200	36,463	65,760	41,110	11	13	11,920	127	60,640
21 Furniture, cabinetmaking, repairing, and upholstering.	6	1,330	160	150	330	1,200	6			3	1,370
22 Looking-glass and picture frames	3	3,600			900	2,700	2			7	4,150
23 Marble and stone work	3	60,025	16,000	3,550	23,025	18,450	1	5	5,300	24	11,199
24 Masonry, brick and stone	16	80,220	1,550	1,350	10,490	16,830	23			158	79,375
25 Mattresses and spring beds.	4	1,760			510	1,250	3	1	525	8	2,096
26 Millinery and lace goods	3	9,155			850	8,305		13	5,800	137	23,600
27 Millinery, custom work	11	89,630	6,000	4,000	765	28,895	10	16	3,392	44	7,695
28 Painting, house, sign, etc	17	15,235	1,200	700	2,320	11,015	18	2	1,360	70	34,507
29 Patent medicines and compounds	4	19,425			2,125	17,300	2	12	5,592	8	3,270
30 Paving and paving materials	3	38,420	700	2,050	13,700	21,970	4	1	1,500	89	30,419
31 Photography	9	11,065		550	7,660	2,855	9	1	600	16	7,214
32 Plastering and stucco work	8	300	100	50	300	350	4			11	5,800
33 Plumbing, and gas and steam fitting	10	32,980			2,486	30,494	15	6	4,360	77	43,397
34 Printing and publishing, book and job	9	169,150	15,000	16,000	85,150	63,000	11	20	14,420	240	121,529
35 Printing and publishing, newspapers and periodicals.	17	243,289			76,852	166,437	13	25	24,094	131	68,007
36 Roofing and roofing materials	7	16,300	3,700	2,800	3,150	7,150	10			43	26,940
37 Saddlery and harness	7	52,785	4,000	3,500	5,595	39,690	7	7	4,480	176	84,714
38 Slaughtering and meat packing, wholesale.	3	2,903,197	83,009	696,137	472,715	1,656,336		81	62,316	1,371	613,778
39 Smithing, coppersmithing, and sheet-iron working.	20	32,571	6,000	6,946	6,995	12,630	21	1	600	49	27,027
40 Tobacco, cigars and cigarettes	17	27,715	2,650	6,000	2,800	16,765	20	1	780	65	28,790
41 Watch, clock, and jewelry repairing	11	11,835	1,000	1,000	4,385	5,450	12	1	500	16	10,272
42 All other industries ¹	52	3,349,018	454,266	505,372	1,503,001	886,379	47	116	112,241	719	328,926

¹ Embraces agricultural implements, 1; awnings, tents, and sails, 1; bookbinding and blank book making, 2; bottling, 2; boxes, cigar, 1; boxes, wooden packing, 2; brooms and brushes, 1; carpets, rag, 1; carriage and wagon materials, 1; cheese and butter, urban dairy products, 1; china decorating, 1; electroplating, 1; engraving, steel, including plate printing, 1; engraving, wood, 2; flavoring extracts, 1; food preparations, 2; fruits and vegetables, canning and preserving, 2; fur goods, 1; furniture, factory product, 1; gas, illuminating and heating, 1; grease and tallow, 2; hand stamps, 2; hats and caps, not including fur

ST. LOUIS.

1 All industries	6,782	\$162,179,331	\$17,360,319	\$23,899,872	\$39,870,415	\$81,048,731	6,057	9,778	\$10,994,620	82,672	\$38,191,076
2 Artificial limbs	4	4,700			1,150	3,550	3	3	1,200	5	3,276
3 Awnings, tents, and sails	12	192,231			24,742	167,489	10	41	31,528	175	57,301
4 Babbit metal and solder	3	656,810	41,001	79,765	35,186	500,858	2	31	47,480	62	33,570
5 Baking and yeast powders	11	144,232	3,000	3,000	17,650	120,682	9	42	44,680	75	22,758
6 Baskets, and rattan and willow ware	8	442,638	40,000	87,000	27,246	288,392	8	15	17,100	269	103,892
7 Belting and hose, leather	4	112,000	15,000	25,000	10,500	61,500	1	14	14,900	25	13,072
8 Bicycle and tricycle repairing	32	36,061		1,800	8,681	25,580	39	2	1,500	41	20,412
9 Billiard tables and materials	4	5,325			875	4,450	3			11	6,710
10 Blacksmithing and wheelwrighting	306	351,888	34,300	82,000	61,268	124,268	339	11	9,800	455	260,077
11 Bookbinding and blank book making	16	217,267			82,015	135,252	15	22	24,276	325	131,645
12 Boot and shoe cut stock	3	29,810			1,864	27,946	1	6	8,800	43	12,124
13 Boots and shoes, custom work and repairing.	418	106,788	13,750	22,600	25,931	44,505	421	3	1,549	186	83,487
14 Boots and shoes, factory product	29	2,304,644	85,450	442,877	598,794	1,677,523	19	170	190,549	5,344	1,880,360
15 Bottling	7	525,077	14,000	43,000	80,597	387,480	6	7	12,570	1,207	311,386
16 Boxes, fancy and paper	9	255,420			105,375	179,445	4	36	42,264	565	113,904
17 Boxes, wooden packing	17	572,157	78,900	69,726	111,723	316,803	8	43	52,938	636	260,618
18 Brass castings and brass finishing	10	352,975	29,380	18,600	77,330	227,765	8	24	32,318	180	91,833
19 Bread and other bakery products	337	2,253,728	158,910	261,000	1,222,809	623,009	393	274	201,674	1,454	604,509
20 Brick and tile	11	4,315,257	830,775	649,908	410,251	2,524,323	4	48	70,345	867	309,901
21 Bridges	4	139,200			22,700	116,500	2	16	15,360	495	234,300

BY SPECIFIED INDUSTRIES: 1900—Continued.

ST. JOSEPH.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
4,994	\$2,500,822	2,297	\$587,140	188	\$21,685	\$1,160,912	\$116,371	\$43,879	\$805,110	\$195,552	\$25,068,215	\$24,842,997	\$225,218	\$31,690,736	1
4	2,480					398	301	18	79		3,805	3,800	5	10,000	2
27	16,108			2	310	4,746	4,148	197	406		16,856	15,396	1,460	77,013	3
9	5,285					1,307	1,083	104	170		6,161	5,950	211	22,828	4
147	58,638	52	14,201	1	187	13,447	4,354	235	8,858		268,991	266,704	2,287	362,378	5
203	85,032	186	83,165			133,005	6,375	2,383	124,247		855,609	846,540	9,069	1,327,470	6
226	92,907			10	1,268	18,484	2,600	585	11,102	4,197	64,991	2,181	52,810	211,437	7
174	125,489					142,858	2,078	134	1,513	139,183	263,943	263,058	285	523,044	8
74	39,500					8,047	3,390	864	3,398	400	67,769	56,210	1,559	142,993	9
549	304,480			3	389	9,291		3,084	6,207		310,301	302,287	8,014	639,521	10
93	50,282	7	2,842			10,220	6,899	372	2,949		66,792	65,600	1,132	165,285	11
144	76,093	1,523	427,485	16	2,840	68,597	8,383	4,784	55,480		1,058,099	1,050,379	7,720	1,782,865	12
		47	9,210	3	300	846	766		80		25,072	25,047	25	42,021	13
19	8,776	17	3,188			7,970	250	820	6,900		203,270	201,745	1,525	246,400	14
74	40,150	71	13,235			26,151	7,420	2,018	16,713		281,846	277,997	3,849	438,191	15
55	17,655	7	1,150	6	644	7,255	960	167	6,128		64,246	63,920	3,325	121,880	16
8	3,622	2	630	3	468	2,288	705	63	1,520		1,633	1,363	275	11,160	17
19	12,400					2,830	1,545	85	1,200		40,677	40,470	207	66,900	18
69	35,013					43,640	200	2,794	40,646		757,434	746,834	10,600	956,576	19
127	60,640					5,523	2,515	993	2,015		83,798	81,110	7,088	260,465	20
8	1,870					663	549	25	89		2,297	2,252	45	8,635	21
6	4,050			1	100	975	660	53	262		6,880	6,880		14,700	22
24	11,199					5,729	460	556	3,293	1,420	13,348	12,846	502	38,235	23
153	79,375					2,835	835	215	1,785		169,727	165,302	425	321,365	24
4	1,300					835	535	16	184	100	6,905	6,865	40	13,400	25
		134	23,200	3	400	8,515	1,900	100	1,515		80,200	80,200		160,273	26
70	34,507	48	7,575	1	120	7,889	5,200	349	2,280		55,132	54,968	164	109,280	27
6	2,825	1	290	1	165	2,827	2,064	72	691		22,156	22,136	20	82,094	28
89	30,419					5,024	680	19	4,235		10,626	10,612	24	34,427	29
10	5,070	5	2,014	1	180	1,806	305	167	1,334		34,582	34,375	207	100,479	30
						8,694	2,746	94	854		9,956	9,956	140	33,624	31
11	5,360					1,055	85	5	265	700	9,123	9,123		19,640	32
76	43,247			1	150	6,550	3,450	257	2,843		112,898	112,830	8	194,261	33
137	98,580	95	21,541	8	1,408	12,374	5,342	794	6,238		96,359	92,268	4,091	302,060	34
118	64,606	8	2,676	5	725	72,630	6,078	840	18,987	48,230	42,602	40,905	1,697	279,103	35
43	26,940					2,298	551	100	1,642		49,966	49,966		95,050	36
176	84,714					4,847	1,201	614	2,532		306,781	305,970	811	483,846	37
1,332	606,578	2	960	87	6,240	122,807	1,225	3,535	117,997		17,859,996	17,797,892	62,104	19,009,332	38
44	26,063			5	964	4,061	2,814	189	1,058		44,533	44,283	250	101,471	39
50	26,809	4	970	11	1,511	12,924	3,236	400	9,238		27,705	27,615	90	86,495	40
14	10,048			2	224	3,179	2,282	276	621		7,027	6,842	185	84,910	41
612	303,152	90	22,780	17	2,994	375,997	21,151	16,003	337,471	1,872	1,673,569	1,683,200	45,369	2,810,769	42

hats and wool hats, 1; ice, manufactured, 1; ironwork, architectural and ornamental, 1; liquors, malt, 2; lock and gun smithing, 1; lumber, planing mill products, including sash, doors, and blinds, 2; mineral and soda waters, 2; monuments and tombstones, 2; refrigerators, 1; sewing machine repairing, 2; shirts, 1; sporting goods, 1; starch, 1; trunks and valises, 1; wirework, including wire rope and cable, 1; wood, turned and carved, 1; woolen goods, 1.

ST. LOUIS.

64,111	\$33,537,466	15,548	\$4,113,863	3,013	\$589,747	\$33,271,804	\$2,262,330	\$745,815	\$24,489,616	\$5,773,983	\$117,861,443	\$115,458,275	\$2,403,168	\$233,629,733	1
5	3,276					2,195	1,476	24	695		2,992	2,972	20	16,580	2
64	27,010	108	29,927	3	364	24,325	12,940	600	8,785	2,000	312,804	311,019	1,785	618,565	3
62	33,570					72,016	22,416	3,831	65,185	3,000	2,519,867	2,510,177	9,690	2,765,434	4
27	12,704	48	10,054			22,419	5,252	613	16,554		945,966	344,132	1,834	505,708	5
183	88,332	41	7,300	45	8,260	10,891	1,572	1,200	8,119		126,226	123,080	3,146	361,290	6
23	12,922			1	150	20,641	1,880	778	16,533	1,950	165,075	163,690	1,385	224,500	7
34	19,356	1	300	7	696	11,934	6,701	143	3,040	2,050	49,991	49,532	459	123,935	8
11	6,710					2,443	1,200	68	1,175		10,239	10,154	85	38,000	9
447	237,074			18	3,003	59,950	45,855	2,995	10,725	375	265,977	252,870	13,107	906,069	10
142	81,803	175	48,555	8	1,257	22,583	11,690	452	8,681	1,760	112,110	109,510	2,600	349,729	11
28	8,856	15	3,208			4,538	2,720	122	1,691		115,938	115,398	540	177,050	12
181	82,520	1	300	4	607	49,428	39,449	955	6,307	2,717	125,445	123,467	1,978	455,716	13
2,927	1,229,938	1,998	581,190	419	69,232	159,410	39,406	9,555	110,449		5,851,880	5,803,110	48,770	8,236,156	14
881	299,300	4	570	322	71,416	117,681	26,110	4,444	87,127		2,953,156	2,953,056	5,100	3,751,130	15
131	51,412	363	54,052	71	8,440	22,710	13,270	667	8,773		180,587	127,623	2,964	413,198	16
520	242,560	13	2,702	103	15,356	50,407	16,474	3,649	30,284		713,646	708,141	5,505	1,246,548	17
175	90,793			5	1,040	45,247	5,490	1,439	37,268	1,000	915,960	901,510	13,850	1,131,854	18
1,025	559,146	337	36,307	92	21,056	227,370	105,250	12,187	109,378		2,413,586	2,347,521	66,065	4,817,756	19
781	293,658			76	10,243	66,416	4,544	15,760	45,392	120	137,368	137,797	123,571	642,961	20
495	294,900					6,017	672	500	4,245	600	196,595	192,755	3,840	588,000	21

TABLE 8.—MANUFACTURES IN CITIES

ST. LOUIS—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
22 Brooms and brushes	28	\$100,205	\$2,350	\$6,850	\$10,232	\$81,273	29	14	\$11,357	164	\$67,089
23 Carpentering	565	1,526,349	106,725	122,325	193,468	1,103,831	623	83	91,544	3,759	1,647,120
24 Carpets, rag	6	2,775			1,075	1,700	8	21	80,520	15	5,503
25 Carriage and wagon materials	11	481,186	46,100	54,000	148,942	232,094	8	161	183,973	286	134,017
26 Carriages and wagons	110	2,466,202	276,009	283,742	150,427	1,786,024	100			1,756	924,916
27 Cars and general shop construction and repairs by steam railroad companies.	6	945,145	496,000	113,800	158,393	176,952		66	61,329	1,163	671,752
28 Cars, steam railroad, not including operations of railroad companies.	3	2,880,982	343,229	455,476	361,140	1,721,137		76	74,465	1,705	811,419
29 Cars, street railroad, not including operations of railroad companies.	4	2,740,655	357,064	301,731	281,180	1,800,680		48	87,597	1,175	626,481
30 Cheese and butter, urban dairy products.	34	11,185	3,150	2,950	1,735	3,350	32			8	1,017
31 Chemicals	8	1,969,875	181,224	294,389	427,586	1,066,676	1	78	111,606	340	162,351
32 Cleansing and polishing preparations	6	7,860		500	1,560	5,800	6	10	5,770	8	3,832
33 Clocks	3	205,275	400	1,500	10,425	192,950	1	6	6,400	35	21,692
34 Clothing, men's, custom work and repairing.	407	1,186,050	48,750	47,330	46,395	1,043,555	441	138	149,079	1,565	841,719
35 Clothing, men's, factory product	126	3,240,918	20,100	13,900	131,505	3,075,413	141	287	373,871	2,700	845,675
36 Clothing, men's, factory product, buttonholes.	5	3,810			2,370	1,440	5			12	4,468
37 Clothing, women's, dressmaking	142	130,170	4,475	7,000	15,855	102,840	147	11	14,268	682	216,935
38 Clothing, women's, factory product	42	990,456	3,000	3,000	94,951	889,505	52	182	182,651	1,957	529,125
39 Coffee and spice, roasting and grinding	20	2,271,298	310,866	40,622	234,757	1,685,053	14	259	270,184	4,119	149,447
40 Coffins, burial cases, and undertakers' goods.	5	428,734	18,100	47,400	41,600	321,634	2	62	64,454	350	149,827
41 Confectionery	43	1,248,547	140,000	135,360	272,607	700,580	40	321	241,387	1,081	380,854
42 Cooperage	44	1,146,562	117,900	157,655	154,735	716,272	33	48	71,660	941	361,631
43 Corsets	6	114,660	6,417	24,000	18,975	65,268	4	7	6,300	132	84,322
44 Cutlery and edge tools	3	1,875			875	1,000	3			3	2,400
45 Druggists' preparations, not including prescriptions.	13	871,084	49,675	61,600	21,140	788,669	7	94	133,045	193	67,454
46 Dyeing and cleaning	39	152,002	23,500	62,500	42,015	23,987	41	15	14,670	206	89,293
47 Electrical apparatus and supplies	11	974,000	35,000	65,000	168,023	705,977	5	57	65,050	522	181,821
48 Electrical construction and repairs	29	43,354			13,724	29,630	29	11	8,330	99	63,617
49 Electroplating	10	41,100			19,900	21,200	12	6	5,800	81	39,010
50 Enameling and enameled goods	3	40,171			22,419	17,752	1	8	6,300	35	10,486
51 Engraving and diesinking	18	46,250		2,000	31,800	12,450	16	19	21,240	88	44,619
52 Engraving, steel, including plate printing.	5	47,258			17,705	29,553	1	17	16,278	41	21,441
53 Engraving, wood	8	9,490			4,075	5,415	9			26	10,202
54 Envelopes	3	61,920			88,599	28,321	2	6	4,319	48	13,985
55 Fancy articles, not elsewhere specified.	7	62,303		3,200	22,615	36,488	2	5	2,100	32	12,684
56 Fertilizers	3	219,201	20,767	46,357	37,607	118,870	1	15	12,907	60	27,986
57 Flavoring extracts	8	96,160			7,060	89,100	10	15	56,240	63	22,707
58 Flouring and grist mill products	16	1,386,107	155,350	292,800	328,275	609,682	3	95	120,480	244	129,719
59 Food preparations	22	670,093	402	125,518	100,032	444,141	20	94	116,571	331	132,645
60 Foundry and machine shop products	139	9,582,677	1,078,746	1,031,970	1,889,634	5,682,277	36	631	737,626	5,693	3,058,856
61 Fur goods	7	48,400			3,100	45,300	4	8	2,836	43	19,872
62 Furnishing goods, men's	8	166,691	600	400	8,100	157,591	9	32	28,720	147	44,754
63 Furniture, cabinetmaking, repairing, and upholstering.	104	506,982	54,175	110,840	33,378	803,589	101	31	43,042	513	251,838
64 Furniture, factory product	40	2,759,567	407,825	594,096	397,485	1,420,161	19	230	247,289	2,233	995,997
65 Gas and lamp fixtures	6	91,774			19,163	72,611	7	12	14,100	81	37,403
66 Glass, cutting, staining, and ornamenting.	15	407,265	33,750	20,000	15,305	338,210	11	22	28,690	305	86,356
67 Grease and tallow	4	444,500	60,000	94,000	145,800	144,700	2	12	18,380	58	33,440
68 Hairwork	6	18,380	6,000	3,000	2,880	6,500	7	2	1,000	16	3,184
69 Hand stamps	3	21,770			8,130	13,640	1	5	5,400	15	7,118
70 Hardware	4	361,919	27,000	49,000	80,200	205,719	1	17	30,300	495	156,050
71 Hats and caps, not including fur hats and wool hats.	12	51,889			12,471	39,418	15	5	1,848	158	51,822
72 House furnishing goods, not elsewhere specified.	4	11,625			5,075	6,550	1	0	5,130	20	6,345
73 Ice, manufactured	10	1,034,768	133,000	186,700	586,439	128,629	3	28	33,508	129	78,358
74 Instruments, professional and scientific.	3	103,188			52,268	115,900	7	2	5,800	72	56,792
75 Iron and steel	5	1,065,399	322,607	270,636	411,173	661,393	44	44	73,633	1,473	832,760
76 Ironwork, architectural and ornamental.	18	1,636,339	138,300	189,118	294,672	1,004,368	8	90	113,269	736	424,467
77 Jewelry	8	134,012			84,000	100,012	7	5	6,176	143	98,926
78 Kaolin and other earth grinding	3	236,500	30,000	60,000	105,000	41,500	5	3	3,400	91	41,549
79 Lamps and reflectors	6	332,396	500	10,300	39,050	282,546	5	14	15,955	148	55,349
80 Leather goods	5	51,290	7,000	18,000	7,040	19,250	8	6	1,650	33	16,100
81 Leather, tanned, curried, and finished.	8	914,323	97,135	117,536	73,343	626,909	2	20	35,360	182	97,533
82 Liquors, malt	28	23,349,239	3,807,638	7,485,979	2,938,050	9,117,572	5	302	708,825	2,670	1,660,252
83 Lithographing and engraving	8	459,621	1,450	1,900	232,033	227,588	5	49	707,049	312	161,733
84 Lock and gun smithing	64	24,297			10,775	10,775	70			35	19,147
85 Looking-glass and picture frames	31	198,969	12,400	16,723	13,253	156,593	33	32	33,877	211	103,192
86 Lumber and timber products	4	708,367	18,400	86,850	371,878	281,239	1	17	21,275	315	107,600

BY SPECIFIED INDUSTRIES: 1900—Continued.

ST. LOUIS—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
121	\$59,884	22	\$5,015	21	\$2,190	\$19,774	\$4,576	\$517	\$14,681		\$161,890	\$161,106	\$784	\$353,385	22
3,747	1,641,446	1	800	11	1,874	3,784,329	45,027	6,431	39,222	\$3,643,649	3,681,822	3,660,198	12,624	11,057,162	23
12	5,148			3	445		1,211	25	198		502	482	20	13,040	24
280	133,117			6	900	22,240	6,057	1,361	14,822		306,741	302,223	4,518	655,773	25
1,708	903,794	41	13,534	12	2,588	189,245	68,181	10,261	100,881	9,922	2,111,372	2,085,679	25,793	4,033,799	26
1,160	671,083	3	669			16,822	10	10,517	6,295		605,196	592,179	13,017	1,355,099	27
1,099	839,264	6	2,155			111,148	2,400	5,940	102,808		3,295,448	3,235,494	59,949	4,974,662	28
1,170	625,276	2	725	3	480	129,709	5,120	51,111	73,478		1,329,966	1,320,084	9,882	2,406,836	29
6	1,247	2	370			1,989	1,502	112	375		19,925	19,835	90	34,931	30
277	160,657	37	7,152	26	4,642	135,806	7,200	16,775	111,831		1,335,798	1,302,927	32,871	1,804,090	31
8	3,832					2,644	867	77	1,700		8,030	7,925	105	28,548	32
36	21,692					2,533	2,172	231	80		70,464	69,698	766	184,975	33
1,081	681,821	443	152,946	41	6,952	434,783	174,668	5,620	122,047	182,453	1,133,235	1,122,215	11,020	3,178,255	34
698	355,553	2,086	482,886	58	7,236	556,586	92,334	9,344	82,233	372,625	3,002,468	2,982,007	20,461	5,577,442	35
7	3,228	5	1,230			686	508		178		2,419	2,196	223	14,112	36
39	29,594	617	184,337	26	3,004	42,980	28,670	872	10,693	2,745	253,504	251,682	1,822	726,172	37
377	161,836	1,522	359,134	53	8,155	131,655	47,327	3,309	35,809	45,210	1,670,705	1,657,536	13,169	2,987,446	38
227	110,980	175	36,025	17	2,442	183,767	46,034	8,680	126,303	2,750	3,947,513	3,927,172	20,341	4,765,564	39
278	131,333	77	13,489			51,851	14,860	2,540	34,451		491,523	487,809	3,714	775,801	40
520	264,863	516	109,191	45	6,810	195,003	72,742	7,696	113,765	800	1,810,623	1,788,255	22,368	2,997,685	41
851	344,073			90	17,558	61,144	9,480	5,185	46,479		961,929	956,726	5,203	1,698,362	42
9	6,331	119	27,601	4	390	13,540	1,844	451	11,245		64,862	63,950	1,012	126,136	43
3	2,400					2,368	540	22	806	1,000	1,300	1,060	240	12,550	44
78	40,238	114	27,016	1	150	319,071	8,242	1,904	308,926		481,604	479,412	2,192	1,718,970	45
123	64,076	76	24,145	7	1,072	26,116	11,953	1,594	11,669	900	30,245	25,762	4,488	229,166	46
395	152,325	111	26,245	16	3,250	142,701	10,590	3,135	122,976	6,000	840,599	329,773	10,825	874,890	47
98	68,409			1	208	11,321	5,947	150	1,974	3,250	70,067	68,676	1,391	196,550	48
63	36,310			13	2,700	10,553	1,433	4,912	4,912	180	16,928	17,670	1,742	90,965	49
26	9,010	9	1,320	1	156	3,011	1,819	117	1,075		9,917	7,327	2,590	38,815	50
75	42,547	13	2,072			12,840	5,917	304	5,419	1,200	22,746	19,588	3,158	134,622	51
38	20,609	3	832			8,400	3,956	81	2,863	1,500	30,596	29,561	1,035	90,514	52
20	9,618			6	584	1,975	1,276	34	305	800	2,759	2,681	78	28,873	53
13	9,860	29	4,890	1	285	2,593	1,230	123	1,240		28,112	27,620	492	52,771	54
15	8,365	14	3,611	3	708	5,222	2,723	66	1,680	750	13,671	11,661	2,010	38,060	55
59	27,590	1		1	396	36,449	800	733	30,714	4,652	137,306	120,698	7,608	236,635	56
80	18,525	33	9,132			11,489	5,707	703	5,029		110,361	109,132	1,229	209,618	57
211	115,969	31	13,250	2	500	119,285	4,350	8,257	100,628		3,392,269	3,392,269	40,482	4,004,062	58
244	114,555	78	16,560	14	1,530	86,227	14,099	2,066	70,092		797,536	789,537	8,049	1,290,260	59
5,428	3,037,370	4	1,000	73	18,436	334,848	39,949	36,902	665,590	52,417	5,134,497	4,974,810	159,687	11,628,140	60
14	10,105	27	9,236	2	481	9,514	4,400	107	4,632	325	73,822	73,517	305	141,695	61
13	11,362	124	32,554	5	833	23,024	6,964	290	15,770		172,562	171,867	695	315,600	62
465	235,692	37	13,912	11	2,234	63,010	25,860	2,849	31,971	2,330	492,447	483,698	8,749	1,128,149	63
2,097	954,609	70	22,550	116	18,333	195,040	24,910	15,858	146,477	7,795	1,367,227	1,344,833	22,394	3,268,765	64
31	37,403					13,338	5,340	233	7,750		39,664	37,488	2,196	180,500	65
233	79,836	13	3,900	9	2,570	22,749	12,405	2,319	7,930	75	505,557	497,635	7,922	842,625	66
58	38,440					16,515	540	1,975	14,000		213,052	195,100	22,952	389,197	67
2	776	14	2,408			3,793	2,130	318	1,355		5,104	4,933	171	20,076	68
12	6,500			3	613	2,567	1,040	200	1,177	150	12,290	12,025	265	46,345	69
495	156,050					17,495	615	2,610	14,270		234,261	226,511	7,750	718,065	70
56	27,227	101	27,445	1	150	6,404	4,444	150	1,610		37,648	37,048	60,158	205,140	71
7	3,520	12	2,600	1	225	2,070	1,090	125	855		34,330	33,920	410	55,406	72
129	78,358					47,966	5,400	4,727	37,839		112,419	20,638	82,781	305,718	73
72	56,752					7,689	5,185	255	1,979	250	23,080	21,155	1,925	188,474	74
1,469	830,934			9	1,826	81,455	15,650	9,430	56,325		1,749,165	1,415,957	333,208	3,274,448	75
721	422,133	15	2,334			167,660	5,711	6,306	75,163	80,480	830,237	851,472	28,825	1,768,693	76
136	95,442	6	3,172	1	312	10,463	3,180	462	1,341	480	31,947	79,026	2,921	268,254	77
91	44,549					26,700	560	1,025	25,115		151,355	132,632	18,723	272,549	78
132	52,499			16	2,850	11,354	2,733	656	7,915		59,330	53,472	1,413	162,331	79
36	15,454			3	646	2,804	612	612	1,580		57,079	56,669	410	30,055	80
181	97,332			1	156	27,700	800	2,163	24,737		548,216	541,332	6,884	805,700	81
2,644	1,654,088			26	6,164	5,189,517	17,134	136,084	5,035,849		2,633,437	2,338,203	245,234	11,678,599	82
241	144,720	70	16,863	1	150	52,414	9,392	1,033	176,132	5,971	178,400	175,132	3,263	571,004	83
32	18,763	1	150	2	234	10,071	7,647	275	2,149		14,188	12,825	1,313	34,733	84
139	72,604	25	10,704	47	19,834	32,368	14,458	1,006	16,905		193,614	191,626	1,983	447,345	85
271	101,100	44	6,500			27,392	2,200	3,242	21,950		235,478	234,020	1,458	563,276	86

TABLE 8.—MANUFACTURES IN CITIES

ST. LOUIS—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
87 Lumber, planing mill products, including sash, doors, and blinds.	81	\$2,026,508	\$359,870	\$253,995	\$318,693	\$1,094,450	9	150	\$163,866	1,201	\$574,116
88 Malt.	9	478,946	55,600	137,980	38,760	241,616	4	18	23,984	58	40,599
89 Marble and stone work.	40	454,520	77,075	15,570	64,735	297,140	52	26	34,220	353	209,670
90 Masonry, brick and stone.	192	843,569	118,210	59,981	98,471	571,907	285	90	92,272	2,005	1,414,746
91 Mattresses and spring beds.	18	168,070	9,800	20,000	22,398	116,872	13	14	17,410	165	69,764
92 Millinery and lace goods.	7	83,855			22,527	61,328	5	14	9,084	271	55,555
93 Millinery, custom work.	129	255,541	3,100	3,150	9,249	240,042	144	27	28,134	593	170,352
94 Mineral and soda waters.	86	492,200	86,775	52,700	142,639	260,086	35	47	47,224	254	125,616
95 Mirrors.	3	56,572	12,000		24,200	20,372	1	11	9,766	68	29,175
96 Models and patterns.	12	32,340		200	15,412	16,728	12	4	3,660	65	41,312
97 Monuments and tombstones.	22	895,361	106,000	81,700	11,180	246,481	23	16	18,975	119	63,629
98 Mucilage and paste.	5	25,938			4,585	21,413	6	3	3,640	18	5,931
99 Musical instruments and materials, not specified.	5	3,700			2,100	1,600	6			1	520
100 Musical instruments, organs and materials.	4	48,380	4,800	20,100	1,330	17,650	6			28	13,916
101 Oil, not elsewhere specified.	3	34,102			1,450	32,652	3	12	6,942	6	3,120
102 Optical goods.	7	152,700			8,150	144,550	8	7	6,050	17	8,406
103 Painting, house, sign, etc.	336	451,043	53,980	39,125	62,112	295,831	376	57	59,902	1,186	765,402
104 Paints.	13	2,844,576	257,368	343,518	378,193	1,860,587	7	113	172,366	429	195,464
105 Paper hanging.	109	270,613	15,075	22,250	15,821	217,467	116	51	39,760	425	284,828
106 Patent medicines and compounds.	78	2,054,745	185,900	228,800	140,767	1,499,778	56	309	317,361	691	202,465
107 Paving and paving materials.	67	1,055,896	354,551	29,317	215,307	456,721	64	86	103,918	1,427	735,784
108 Perfumery and cosmetics.	6	78,407			7,150	71,257	5	21	26,195	84	29,137
109 Photographic materials.	3	273,692	24,000	127,000	47,582	78,110	2	26	58,105	140	71,604
110 Photography.	65	188,044	16,800	43,615	52,780	75,849	67	26	23,620	203	92,197
111 Photolithographing and photoengraving.	5	13,100			7,800	5,300	7	2	4,000	25	17,885
112 Pickles, preserves, and sauces.	7	276,154	11,000	39,000	26,700	199,454	7	62	62,576	155	49,589
113 Plastering and stucco work.	115	194,289	22,600	29,000	13,752	68,987	139	2	432	279	164,704
114 Plated and Britannia ware.	3	68,800			44,000	24,800	1	6	5,250	35	16,298
115 Plumbers' supplies.	6	275,500	27,200	22,800	72,000	153,500	1	55	47,180	321	165,010
116 Plumbing, and gas and steam fitting.	243	704,084	116,450	43,150	59,768	484,716	285	71	70,788	898	583,473
117 Pottery, terra cotta, and fire-clay products.	13	2,393,731	808,201	537,137	236,451	811,942	4	101	134,761	1,254	493,755
118 Printing and publishing, book and job.	173	3,560,123	116,500	136,250	1,525,326	1,782,052	165	524	481,141	2,320	1,129,757
119 Printing and publishing, newspapers and periodicals.	118	3,493,395	94,000	472,000	1,076,115	1,851,280	80	961	866,924	1,222	911,099
120 Roofing and roofing materials.	47	404,730	68,425	7,200	45,927	283,178	45	42	44,909	371	176,665
121 Saddlery and harness.	99	1,080,317	105,813	194,272	79,173	701,589	95	100	98,672	568	263,985
122 Saws.	3	312,300		8,650	80,312	223,428		38	40,480	174	109,144
123 Scales and balances.	3	3,350			1,050	1,700	8	1	1,200	8	4,116
124 Sewing machine repairing.	9	2,175			615	1,560	12			4	1,668
125 Ship and boat building, wooden.	4	23,592	1,000	2,500	6,525	18,567	7	3	3,070	58	41,699
126 Shirts.	19	352,557			43,495	304,062	16	58	65,715	814	220,501
127 Show cases.	3	133,979	16,269	26,000	8,648	88,062	2	10	7,574	78	33,970
128 Slaughtering and meat packing, wholesale.	21	2,512,805	271,447	469,871	310,437	1,461,000	20	93	133,273	792	425,881
129 Slaughtering, wholesale, not including meat packing.	4	95,444			31,220	64,224	3	10	9,300	49	22,406
130 Soap and candles.	13	2,281,698	228,951	303,864	454,712	1,280,171	11	151	209,195	552	230,489
131 Stationery goods, not elsewhere specified.	4	18,000			7,019	10,981	4	5	5,030	20	3,423
132 Steam fittings and heating apparatus.	4	338,474	15,900	10,000	152,768	159,806	3	30	30,517	199	93,083
133 Steam packing.	3	17,310			310	17,000	2	5	4,140	18	10,970
134 Stencils and brands.	3	7,125			6,300	825	3			5	2,077
135 Stereotyping and electrotyping.	3	40,500			24,000	16,500	4	13	12,180	50	30,320
136 Sugar and molasses, refining.	5	112,836	3,000	7,000	89,493	63,343	3	16	18,656	27	15,939
137 Surgical appliances.	3	18,199	725	500	2,465	14,509	12	2	3,600	18	6,279
138 Tinsmithing, coppersmithing, and sheet-iron working.	214	1,397,733	98,000	160,893	293,978	804,912	235	127	100,839	1,039	481,634
139 Tobacco, chewing, smoking, and snuff.	13	6,757,781	294,600	1,549,208	910,907	4,003,066	8	709	679,365	3,502	1,360,692
140 Tobacco, cigars and cigarettes.	341	578,309	22,498	45,505	16,040	494,266	354	47	37,756	367	424,152
141 Tools, not elsewhere specified.	5	61,500		500	34,800	26,200	2	8	6,340	48	31,580
142 Trunks and valises.	10	828,274	1,500	2,000	15,538	309,236	10	42	63,142	316	139,757
143 Type founding.	3	232,175			120,500	131,675	20	20	20,120	146	64,859
144 Typewriter repairing.	8	21,430			830	20,600	4	8	5,000	20	12,900
145 Umbrellas and canes.	7	49,705			2,400	47,245	7	4	2,191	17	5,373
146 Upholstering materials.	4	71,800	14,500	8,000	9,500	39,800	1	5	3,157	36	15,179
147 Varnish.	5	126,877	17,000	8,660	12,404	88,813	2	13	20,894	19	12,416
148 Vinegar and cider.	7	88,150	500	1,000	20,899	65,751	10	21	19,096	44	21,240
149 Washing machines and clothes wringers.	4	148,982	34,000	30,600	31,720	52,662	3	7	5,760	110	37,655
150 Watch, clock, and jewelry repairing.	142	106,713	2,000	3,200	33,625	67,988	152	14	8,174	115	53,149
151 Wirework, including wire rope and cable.	12	728,744	49,000	46,000	140,780	492,964	7	42	69,774	298	162,072

BY SPECIFIED INDUSTRIES: 1900—Continued.

ST. LOUIS—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1,161	\$566,781			40	\$7,385	\$310,691	\$19,404	\$18,240	\$84,897	\$193,150	\$1,102,321	\$1,084,846	\$17,476	\$2,367,160	87
53	40,599					20,371	2,900	2,451	15,020		210,225	197,945	12,280	313,803	88
351	209,150			2	520	33,982	9,372	2,237	21,110	1,263	193,107	186,021	7,086	571,608	89
2,005	1,414,746					461,956	15,005	5,458	48,169	393,324	2,261,702	2,256,802	5,400	5,138,589	90
104	54,354	38	\$9,877	28	5,583	28,183	7,302	1,087	19,794		243,514	240,607	2,907	412,547	91
20	11,597	245	43,858	6	600	6,956	5,329	292	1,335		196,010	193,968	1,042	295,625	92
6	3,950	558	162,889	29	3,513	74,786	53,802	1,768	19,123		503,856	502,285	1,571	1,035,652	93
216	118,254	11	2,400	27	4,362	77,650	17,052	1,731	58,767		219,759	216,384	3,375	613,337	94
62	28,285	2	350	4	540	11,015	5,349	150	5,516		78,084	71,975	1,059	145,500	95
62	41,212	1	300	2	300	5,680	3,436	154	1,090	1,000	17,767	16,238	1,474	82,481	96
119	63,629					20,763	4,689	1,582	18,792	740	174,697	172,747	1,950	364,913	97
14	4,943	4	988			4,436	1,850	112	2,474		24,841	23,708	1,133	55,618	98
1	620					808	720	81	67		1,500	1,453	47	6,667	99
28	18,916					3,555	186	362	3,007		12,457	12,355	102	36,490	100
6	3,120					2,521	1,120	278	1,123		24,130	23,915	215	45,310	101
15	7,906			2	500	14,018	5,860	85	7,573	500	85,361	34,403	958	88,325	102
1,162	760,916			24	4,486	102,909	36,965	2,621	51,918	11,305	519,897	518,076	1,821	1,916,576	103
406	191,129	15	3,016	8	1,319	128,901	13,119	15,035	100,747		2,765,774	2,737,360	28,414	3,695,678	104
414	232,666	1	250	10	1,912	78,283	50,849	1,831	20,603		214,499	213,989	510	726,091	105
811	140,122	246	58,794	34	3,549	779,449	26,040	4,413	741,546	6,850	764,711	746,723	17,988	2,599,010	106
1,424	784,944			3	840	90,051	10,477	5,182	40,482	33,960	809,605	792,351	17,254	2,112,573	107
22	12,395	60	16,412	2	330	61,334	3,990	277	57,067		154,185	154,016	169	355,243	108
122	66,850	13	4,754			20,175	1,955	18,220	18,220		333,852	328,802	5,050	584,496	109
129	68,911	64	21,618	10	1,668	45,632	27,551	1,819	18,547	2,715	115,539	114,007	1,532	402,817	110
21	16,735	4	650	4	650	4,864	2,136	61	2,087	680	5,021	4,914	107	45,597	111
76	39,756	75	9,468	4	670	50,631	5,140	1,366	44,125		331,884	327,412	4,472	544,234	112
275	164,062			4	612	28,588	8,980	1,126	16,667	1,315	79,123	78,876	252	418,173	113
27	13,310	4	1,600	4	1,488	3,333	1,750	188	1,395		16,969	15,978	991	58,237	114
316	164,470			5	1,440	17,457	10,100	1,534	5,323		217,791	212,385	5,406	519,516	115
809	578,343			29	5,180	105,522	43,464	3,229	36,637	17,192	984,581	975,259	9,322	2,331,701	116
1,242	491,418			12	2,387	156,619	4,826	11,985	186,455	3,353	283,399	165,488	123,411	1,257,572	117
1,653	952,199	546	150,075	130	21,483	648,828	94,605	9,907	212,775	331,481	2,016,560	1,974,821	41,739	4,420,147	118
1,012	853,865	178	52,911	32	4,323	932,794	92,363	14,149	484,876	340,906	1,315,239	1,281,761	33,478	5,396,303	119
370	175,485			1	200	42,234	10,919	804	30,511		426,242	423,367	2,875	889,827	120
513	250,038	41	9,983	14	2,944	51,524	27,531	5,977	16,617	1,399	683,542	676,690	6,852	1,495,496	121
174	109,144					20,115	5,100	1,937	13,078		147,777	142,777	5,000	432,873	122
8	4,116					1,253	804	28	426		3,516	3,310	206	17,225	123
4	1,668					1,245	874	47	324		3,613	3,544	69	10,675	124
58	41,039					6,000	2,860	73	3,067		23,187	22,367	820	77,326	125
45	28,375	738	194,369	28	3,757	81,207	19,771	1,062	8,874	1,500	879,040	372,623	6,417	848,787	126
76	38,064			2	306	12,405	170	370	11,865		69,011	68,404	607	160,309	127
787	424,581	3	1,000	2	300	158,280	6,060	3,981	142,139	500	10,519,065	10,467,497	51,568	12,267,822	128
47	22,156			2	250	13,622	4,300	559	8,763		601,260	597,935	3,325	675,844	129
422	201,963	129	28,246	1	280	282,852	2,080	9,418	220,854		2,449,210	2,420,843	28,367	3,437,785	130
14	7,380	2	400	4	588	4,396	1,418	58	2,655	265	7,993	7,553	440	32,214	131
199	93,033					27,988	4,680	349	17,336	5,123	185,404	157,422	27,982	430,487	132
13	10,970					3,098	1,320	81	1,607		29,204	29,139	15	63,000	133
3	1,762			2	315	1,147	612	13	217	300	1,631	1,621	10	7,525	134
42	23,900			8	1,420	6,475	3,420	290	2,765		16,099	13,839	2,260	35,500	135
25	13,471	2	408			19,415	920	797	17,638		217,647	215,181	2,466	348,627	136
9	3,767	9	2,512			8,347	1,712	78	1,357	200	9,088	9,016	72	36,357	137
989	473,074	9	1,334	41	6,776	112,186	43,695	5,974	60,302	2,215	1,029,292	1,014,697	14,595	2,130,434	138
1,773	814,950	1,649	524,888	80	20,854	12,259,601	6,624	43,890	12,209,087		8,007,656	7,954,637	53,019	24,411,307	139
729	394,240	64	17,926	74	11,936	208,319	37,988	4,813	165,533		639,148	637,340	1,808	1,556,363	140
48	31,580					3,052	2,280	96	676		29,512	28,037	1,475	90,985	141
295	134,007	20	5,750			68,059	30,230	1,512	30,817	500	232,480	229,282	3,143	605,285	142
92	50,236	45	12,742	9	1,331	25,578	5,140	316	19,622		77,993	75,120	2,843	230,434	143
18	12,702			2	233	3,022	2,220	15	737		5,596	5,596		45,300	144
3	1,950	8	2,492	6	1,131	5,656	5,474	30	2,101		30,995	30,798	197	53,785	145
82	14,659			4	520	3,435	1,148	501	1,736		25,494	24,440	1,054	56,140	146
19	12,416					7,574	1,910	653	5,011		99,485	98,339	1,096	173,068	147
37	20,124	7	1,116			12,541	4,300	342	6,639	1,200	96,119	95,434	685	250,542	148
110	37,655					13,550	1,840	1,770	10,640		122,895	121,130	1,715	207,214	149
99	54,629	2	820	14	2,700	41,620	19,399	5,600	5,755	15,906	59,362	57,924	1,438	270,727	150
276	148,420			22	3,632	40,520	4,711	2,513	33,296		625,569	617,204	8,165	1,014,330	151

TABLE 8.—MANUFACTURES IN CITIES

ST. LOUIS—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES, AND CITIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
152	Wood, turned and carved.....	13	\$79,080	\$11,500	\$9,500	\$27,645	\$30,435	13	5	\$6,720	88	\$32,920
153	Woodenware, not elsewhere specified.....	3	4,350			3,350	1,000	3			3	972
154	Wool pulling.....	4	65,420	400	500	15,120	49,400	4	1	1,200	33	19,769
155	All other industries ¹	124	\$2,097,906	2,766,325	3,570,672	17,815,183	7,945,726	79	444	579,871	4,914	2,246,898

¹ Embraces agricultural implements, 2; ammunition, 1; axle grease, 2; bags, other than paper, 2; bags, paper, 2; bells, 2; blacking, 2; bluing, 2; boot and shoe findings, 2; boot and shoe uppers, 1; boots and shoes, rubber, 1; boxes, cigar, 2; brassware, 2; buttons, 2; calcium lights, 1; cars and general shop construction and repairs by street railroad companies, 2; cheese, butter, and condensed milk, factory product, 1; cloth, sponging and refinishing, 1; clothing, horse, 1; cordage and twine, 1; cork, cutting, 2; cotton, compressing, 2; cotton goods, 2; dentists' materials, 1; drug grinding, 1; files, 2; fire extinguishers, chemical, 1; fireworks, 1; fish, canning and preserving, 1; flags and banners, 2; foundry supplies, 1; fruits and vegetables, canning and preserving, 1; fur hats, 1; galvanizing, 1; gas and oil stoves, 1; gas, illuminating and heating, 2; glass, 2; gloves and mittens, 1; glue, 2; gold and silver, leaf and foil, 1; hand knit goods, 1; hardware, saddlery, 1; hosiery and knit goods, 2; ink, printing, 1; iron and steel, bolts, nuts, washers, and rivets, 1; iron and steel, forgings, 1; japanning, 2; jewelry and instrument cases, 1; jute and jute

SPRINGFIELD.

1	All industries.....	246	\$2,111,048	\$140,802	\$475,637	\$591,788	\$902,821	273	121	\$99,110	2,127	\$1,017,345
2	Blacksmithing and wheelwrighting.....	19	7,117	1,260	990	1,960	2,907	23			16	6,840
3	Boots and shoes, custom work and repairing.....	9	1,461	25	175	890	371	9			3	1,030
4	Bread and other bakery products.....	4	5,440	1,000	1,000	1,070	2,370	5	1	520	22	7,754
5	Brick and tile.....	6	25,025	5,000	5,670	8,155	6,200	9			28	9,028
6	Carpentering.....	18	15,457	1,682	1,970	3,185	8,640	24			78	34,206
7	Carriages and wagons.....	4	\$18,249	15,000	41,231	19,840	242,178	4	3	13,280	107	45,003
8	Clothing, men's, custom work and repairing.....	13	29,815			1,560	23,255	12	1	3,600	77	32,895
9	Clothing, women's, dressmaking.....	11	1,720			890	890	10	3	3,000	44	9,296
10	Confectionery.....	4	26,675	3,450	12,000	3,775	7,450	5	8	4,400	11	2,554
11	Flouring and grist mill products.....	4	190,800	11,800	40,000	70,000	69,000	4	3	8,710	64	23,360
12	Lock and gun smithing.....	3	425			420	5	3				
13	Lumber, planing mill products, including sash, doors, and blinds.....	3	93,300	7,300	12,000	25,000	49,000	1	10	6,800	54	17,039
14	Masonry, brick and stone.....	8	5,366	500	100	266	4,500	10			30	17,680
15	Millinery, custom work.....	12	17,800			680	17,170	14	6	1,700	22	5,460
16	Painting, house, sign, etc.....	15	10,250	55	145	2,155	7,895	21			41	18,375
17	Paving and paving materials.....	5	5,305			1,105	4,200	6			13	5,010
18	Photography.....	10	6,380	100	700	3,375	2,205	10			10	2,460
19	Plumbing, and gas and steam fitting.....	4	27,408	2,000	3,000	1,025	21,383	6	1	480	37	10,956
20	Printing and publishing, book and job.....	8	27,150	2,000	1,000	17,500	6,650	10			17	6,346
21	Printing and publishing, newspapers and periodicals.....	11	49,375			36,500	12,875	14	11	8,000	62	34,410
22	Saddlery and harness.....	3	51,125			2,125	49,000	1	14	3,030	18	7,700
23	Tinsmithing, coppersmithing, and sheet-iron working.....	11	45,775	1,600	12,500	8,950	22,325	13	4	3,100	40	17,074
24	Tobacco, cigars and cigarettes.....	9	13,476	225	150	596	12,505	13	1	50	23	10,148
25	Watch, clock, and jewelry repairing.....	10	6,185	800	200	2,275	2,910	10			6	3,369
26	All other industries ¹	41	1,129,969	87,125	342,806	378,601	321,437	36	46	42,440	1,319	688,802

¹ Embraces awnings, tents, and sails, 2; bicycle and tricycle repairing, 1; brooms and brushes, 2; carpets, rag, 1; cars and general shop construction and repairs by steam railroad companies, 2; cooperage, 1; dyeing and cleaning, 2; electrical construction and repairs, 1; flavoring extracts, 1; food preparations, 1; foundry and machine shop products, 2; furniture, cabinetmaking, repairing, and upholstering, 2; furniture, factory product, 2; gas, illuminating and heating, 1; hairwork, 1;

TABLE 9.—MANUFACTURES IN CITIES

1	Total for cities.....	1,680	\$12,847,807	\$957,995	\$2,059,109	\$3,491,165	\$5,839,033	1,866	781	\$695,346	8,619	\$3,678,544
2	Boonville.....	97	299,128	18,900	75,550	82,795	121,883	119	9	6,064	203	89,426
3	Brookfield.....	64	101,293	11,150	24,515	32,130	33,498	74	4	2,160	193	89,698
4	Cape Girardeau.....	94	431,170	65,286	72,767	134,116	159,011	115	26	14,631	282	105,009
5	Carrollton.....	48	215,760	14,850	39,750	56,695	104,465	60	8	4,220	120	41,445
6	Carthage.....	94	859,385	110,929	97,533	325,356	325,567	107	48	40,698	523	217,237
7	Chillicothe.....	111	323,635	27,292	49,903	99,385	147,105	138	12	9,520	290	114,007
8	Clinton.....	62	333,364	31,440	61,150	141,527	99,247	72	16	12,667	172	69,099
9	Hannibal.....	172	1,890,713	128,332	261,208	461,343	1,041,335	170	145	117,305	1,420	611,859
10	Independence.....	64	503,645	58,200	79,950	127,655	239,840	63	29	35,737	220	100,932
11	Jefferson City.....	99	1,627,434	66,070	90,123	234,951	1,186,290	100	179	179,345	455	169,124
12	Louisiana.....	75	453,470	42,945	66,214	129,274	216,037	82	33	63,314	319	90,531
13	Maryville.....	69	130,075	26,700	37,550	43,515	72,310	84	9	3,890	155	66,789
14	Mexico.....	84	261,617	24,375	33,815	94,027	104,400	94	10	5,600	194	68,230
15	Moberly.....	84	551,453	57,900	160,350	182,315	150,383	91	45	41,863	766	353,641
16	Nevada.....	81	487,924	32,775	40,350	139,770	139,029	91	30	19,405	403	130,232
17	Rich Hill.....	48	224,609	9,665	44,370	143,355	26,719	60	4	1,797	115	42,659
18	St. Charles.....	75	1,940,719	74,000	357,050	410,902	1,068,107	80	59	59,445	1,275	601,937
19	Sedalia.....	131	1,233,053	125,033	286,767	431,475	449,133	131	79	57,105	1,098	463,737
20	Trenton.....	36	305,715	14,130	41,424	65,974	34,137	93	23	13,646	252	113,503
21	Webb City.....	42	211,090	13,773	40,790	74,545	70,932	42	8	6,934	164	79,294

SPECIFIED INDUSTRIES: 1900—Continued.

ST. LOUIS—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.					MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.		Fuel and rent of power and heat.
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.									
88	\$32,920					\$7,906	\$4,393	\$288	\$3,225		\$216,074	\$215,568	\$506	\$302,880
2	837	1	\$185			758	559	5	194		3,599	3,384	215	7,600
83	19,759					4,063	1,530	283	2,300		2,956	1,046	1,910	45,800
3,697	1,954,504	989	257,638	228	\$34,696	707,184	70,240	85,361	543,413	\$8,170	9,998,540	9,797,726	200,814	16,016,287

goods, 1; kindling wood, 1; lapidary work, 1; lasts, 2; lead, smelting and refining, 1; lime and cement, 2; liquors, vinous, 2; mantels, slate, marble, and marbleized, 1; musical instruments, pianos and materials, 1; needles and pins, 2; nets and seines, 1; oil, cottonseed and cake, 1; paper goods, not elsewhere specified, 2; paper patterns, 2; pipes, tobacco, 2; printing and publishing, music, 2; printing materials, 1; pumps, not including steam pumps, 1; refrigerators, 1; regalia and society banners and emblems, 2; registers, car fare, 1; rubber and elastic goods, 1; sausage, 2; screws, machine, 1; sewing machines and attachments, 1; soda water apparatus, 2; sporting goods, 2; springs, steel, car and carriage, 1; stamped ware, 1; starch, 1; taxidermy, 2; tin and terne plate, 1; toys and games, 2; whips, 2; window shades, 2; wood, preserving, 1; wool scouring, 1; zinc, smelting and refining, 1.

SPRINGFIELD.

1,956	\$981,721	145	\$32,222	26	\$3,402	\$154,290	\$27,832	\$14,526	\$68,827	\$43,105	\$2,274,705	\$2,222,823	\$51,882	\$4,126,571	1
15	6,790			1	50	1,843	1,622	55	146	20	7,699	6,914	785	34,228	2
8	1,030					662	576	11	75		3,004	2,920	84	9,770	3
21	7,694			1	60	1,336	456	75	805		17,322	16,502	820	36,036	4
25	8,648			3	380	325		180	145		5,474	906	4,568	22,450	5
73	34,206					14,772	537	56	372	13,807	69,264	69,239	25	149,557	6
104	44,469			3	534	7,207	240	1,264	5,703		124,388	121,965	2,423	233,884	7
45	24,070	32	8,825			5,085	3,325	345	1,415		43,040	42,695	343	96,588	8
		44	0,296			1,187	1,054	25	108		9,242	9,062	180	27,950	9
7	1,900	4	654			1,468	645	213	605		12,340	11,825	515	28,845	10
54	23,360					9,184		1,493	7,691		848,830	839,910	8,920	985,394	11
						123	108	2	13		180	159	21	2,050	12
53	16,960			1	129	24,440	300	575	3,435	20,130	88,675	88,125	550	164,763	13
30	17,680					6		6			28,134	23,134		48,435	14
41	18,375	22	5,460			5,217	3,874	239	1,104		28,200	27,980	220	60,825	15
						1,986	1,460	61	215	250	15,349	15,237	112	54,045	16
13	5,010					1,115		5	110	1,000	14,281	14,281		24,000	17
5	1,680	5	880			1,951	1,516	28	407		3,900	3,706	194	16,700	18
35	10,520			2	436	4,266	984	144	3,133		23,703	23,652	51	61,164	19
14	6,196	3	650			5,030	1,120	125	785	3,000	10,063	9,816	247	41,600	20
52	32,060	6	1,825	4	525	7,019	2,163	172	2,606	2,075	17,454	15,818	1,636	38,365	21
18	7,700					3,255	1,570	60	1,625		34,660	34,580	80	66,100	22
40	17,074					2,649	1,489	314	746		81,015	30,680	335	67,665	23
17	9,513			6	635	5,620	372	35	5,213		15,539	15,404	135	39,249	24
5	3,200	1	169			2,389	1,515	67	807		4,252	4,081	171	15,050	25
1,286	683,686	28	4,463	5	653	46,260	2,903	8,976	31,558	2,823	823,697	794,232	29,465	1,752,209	26

ice, manufactured, 1; liquors, malt, 1; liquors, vinous, 2; mattresses and spring beds, 1; mineral and soda waters, 2; monuments and tombstones, 2; plastering and stuccowork, 1; printing and publishing, music, 1; roofing and roofing materials, 2; shirts, 1; soap and candles, 1; tobacco, chewing, smoking, and snuff, 2; trunks and valises, 1; wood, turned and carved, 1.

UNDER 20,000 IN POPULATION: 1900.

7,265	\$3,423,365	1,135	\$229,198	219	\$25,986	\$1,576,400	\$169,001	\$53,365	\$362,398	\$186,636	\$12,054,024	\$11,743,638	\$310,386	\$20,690,890	1
164	32,285	25	5,079	14	2,062	28,129	5,948	2,144	20,037		271,425	266,644	4,781	478,455	2
161	84,237	25	4,275	7	1,186	12,109	6,985	806	4,318		185,396	180,590	4,746	329,889	3
266	103,285	3	468	13	1,256	85,871	5,429	2,450	27,742	250	331,749	320,959	10,790	612,259	4
100	36,548	19	4,797	1	100	11,625	4,253	1,004	6,263		185,757	180,690	5,067	311,381	5
403	189,004	110	26,916	10	1,317	90,658	13,093	4,289	27,971	45,300	543,592	522,958	20,639	1,176,938	6
228	100,682	54	12,250	8	1,075	20,154	8,980	1,874	8,923	372	809,296	304,146	5,150	608,767	7
133	61,683	28	5,190	16	2,226	15,747	5,186	1,906	8,655		195,664	186,496	9,168	372,194	8
1,189	572,059	216	38,249	15	1,551	141,634	18,274	8,039	113,771	1,550	1,890,909	1,848,719	42,190	3,025,349	9
184	92,032	29	7,880	7	1,070	39,775	6,556	2,490	29,829	900	604,002	593,332	10,620	886,854	10
350	151,165	65	14,172	40	3,797	589,999	11,740	4,948	158,540	414,771	2,279,578	2,260,107	19,466	3,861,998	11
220	75,435	94	14,634	5	512	233,318	5,513	2,489	212,357	12,974	365,794	353,241	12,553	908,088	12
126	60,489	24	5,592	5	708	15,489	6,449	1,186	7,851		160,015	153,595	6,420	333,838	13
155	62,112	32	5,574	7	544	23,423	6,389	1,005	16,029		215,074	207,573	7,501	415,804	14
717	345,370	34	7,052	15	1,219	42,120	8,424	5,070	25,897	2,729	421,410	400,868	20,547	950,664	15
370	183,653	29	6,135	4	444	38,160	9,623	2,654	19,373	6,000	693,372	666,800	26,572	1,046,616	16
103	40,511	7	1,708	5	440	12,061	4,996	1,052	5,973	35	164,148	161,031	3,117	255,132	17
1,223	595,505	19	2,350	33	4,042	126,412	11,420	3,374	110,918	700	1,982,519	1,931,870	51,149	3,145,662	18
804	403,830	280	57,520	14	2,437	69,949	19,663	8,170	41,769	442	811,697	811,697	31,615	1,599,326	19
224	103,054	28	5,464			17,817	7,096	2,102	8,006	613	247,841	238,966	8,875	469,748	20
145	75,346	19	3,948			12,050	3,064	1,333	7,653		244,851	235,851	9,500	425,763	21

CENSUS BULLETIN.

No. 153.

WASHINGTON, D. C.

March 20, 1902.

AGRICULTURE.

ARKANSAS.

Hon. WILLIAM R. MERRIAM,
Director of the Census.

SIR: I have the honor to transmit herewith, for publication in bulletin form, the statistics of agriculture in the state of Arkansas, taken in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that—

The schedules relating to agriculture shall comprehend the following topics: Name of occupant of each farm, color of occupant, tenure, acreage, value of farm and improvements, acreage of different products, quantity and value of products, and number and value of live stock. All questions as to quantity and value of crops shall relate to the year ending December thirty-first next preceding the enumeration.

A "farm," as defined by the Twelfth Census, includes all the land under one management, used for raising crops and pasturing live stock, with the wood lots, swamps, meadows, etc., connected therewith. It includes also the house in which the farmer resides, and all other buildings used by him in connection with his farming operations.

The farms of Arkansas, June 1, 1900, numbered 178,694, and had a value of \$135,182,170. Of this amount \$30,075,520, or 22.2 per cent, represents the value of buildings, and \$105,106,650, or 77.8 per cent, the value of the land and improvements other than buildings. On the same date the value of farm implements and machinery was \$8,750,060, and of live stock, \$37,483,771. These values, added to that of farms, give the "total value of farm property." For Arkansas this value in 1900 was \$181,416,001.

The products derived from domestic animals, poultry, and bees, including animals sold or slaughtered on farms, are referred to in this bulletin as "animal products." The

total value of all such products, together with the value of all crops, is termed "total value of farm products." This value for 1899 was \$79,649,490, of which amount \$20,377,278, or 25.6 per cent, represents the value of animal products, and \$59,272,212, or 74.4 per cent, the value of crops, including forest products. The "total value of farm products" for 1899 exceeds that for 1889 by \$26,521,835, or 49.9 per cent.

The value of "net farm products," or the "gross farm income," is obtained by deducting from the total value of farm products the value of the products fed to live stock on the farms of the producers. In 1899 the reported value of products fed was \$13,572,870, leaving \$66,076,620 as the gross farm income for that year. The percentage which this amount is of the "total value of farm property" is referred to in this bulletin as the "percentage of income upon investment." For Arkansas in 1899 it was 36.4 per cent.

As no reports of expenditures for taxes, interest, insurance, feed for stock, and similar items have been obtained by any census, no statement of net farm income can be given.

The statistics presented in this bulletin will be treated in greater detail in the final volume, "Statistics of Agriculture in the United States," which will be published about June 1, 1902. The present publication is designed to present a summarized advance statement for Arkansas.

Very respectfully,


Chief Statistician for Agriculture.

AGRICULTURE IN ARKANSAS.

GENERAL STATISTICS.

The total land surface of Arkansas is 53,045 square miles, of which 25,995 square miles, or 49.0 per cent, are included in farms.

The land bordering the Mississippi, Arkansas, and Red rivers, which drain a large part of the state, is low and swampy in many places, and subject to annual overflow. Back from these streams the surface is more elevated, and, with the exception of the southern and eastern counties, some of which are partly prairie land, the whole state is diversified by forests and rolling uplands, passing in the west and northwest into the foothills of the Ozark Mountains.

Along the low river bottoms the soil is dark, rich, and friable, and yields excellent crops of cotton. Drainage is commonly required, and the available area could be largely increased by a system of dikes and ditches. The soil of the prairies is, in general, a dark, sandy loam, usually fertile, but in places better adapted to grazing than to cultivation. Much of the upland region is especially suited to the production of cereals and fruits.

Arkansas is primarily an agricultural state. There are no large cities, and the progress of general farming has not yet been checked by the transfer of farm capital to those special branches of husbandry which depend, for their successful pursuit, upon the demands of local urban population. The growth shown by the figures of this bulletin is the result of the development of great natural agricultural resources.

NUMBER AND SIZE OF FARMS.

The following table gives, by decades since 1850, the number of farms, the total and average acreage, and the per cent of farm land improved.

TABLE 1.—FARMS AND FARM ACREAGE: 1850 TO 1900.

YEAR.	Number of farms.	NUMBER OF ACRES IN FARMS.				Per cent of farm land improved.
		Total.	Improved.	Unimproved.	Average.	
1900.....	178,694	16,686,719	6,958,785	9,682,984	98.1	41.8
1890.....	124,760	14,891,856	5,475,043	9,416,313	110.4	36.8
1880.....	94,433	12,061,647	3,595,603	8,465,944	127.7	29.8
1870.....	49,424	7,597,296	1,859,821	5,737,475	153.7	24.5
1860.....	39,004	9,573,708	1,983,313	7,590,393	245.5	20.7
1850.....	17,758	2,698,214	781,530	1,816,684	146.3	30.1

The number of farms reported, June 1, 1900, was more than ten times as great as the number reported in 1850,

and 43.2 per cent greater than in 1890. The total acreage of farm land, also, has increased rapidly, the gain for the last decade being 11.7 per cent. Since 1860 the number of farms has increased faster than the total acreage, involving a decrease in the average size of farms and indicating a progressive division of farm holdings. The steady increase in the acreage and per cent of improved farm land is in keeping with this movement.

FARM PROPERTY AND PRODUCTS.

Table 2 presents a summary of the principal statistics relating to farm property and products for each census year, beginning with 1850.

TABLE 2.—VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND OF FARM PRODUCTS: 1850 TO 1900.

YEAR.	Total value of farm property.	Land, improvements and buildings.	Implements and machinery.	Live stock.	Farm products. ¹
1900.....	\$181,416,001	\$135,182,170	\$8,750,060	\$37,483,771	\$79,649,490
1890.....	155,019,702	113,574,422	5,672,400	30,772,880	53,128,155
1880.....	99,959,577	74,249,655	4,637,437	20,472,425	48,796,261
1870 ²	59,489,613	40,029,698	2,237,409	17,222,506	\$40,701,699
1860.....	117,922,076	81,619,778	4,175,328	22,096,977	.....
1850.....	23,514,510	15,265,245	1,601,296	6,647,969	.....

¹ For year preceding that designated.

² Values for 1870 were reported in depreciated currency. To reduce to specie basis of other figures they must be diminished one-fifth.

³ Includes betterments and additions to live stock.

The remarkable growth of agriculture in the decade, 1850 to 1860, the disastrous effects of the Civil War, and the subsequent recovery of the state, which by 1890 had more than regained its former position, are interesting features shown in the above table.

The gain in the last decade in the total value of farm property was \$26,396,299, or 17.0 per cent. Of this amount, \$16,607,748, or 62.9 per cent, represents the increase in the value of land, improvements, and buildings; \$3,077,660, or 11.7 per cent, in that of implements and machinery; and \$6,710,891, or 25.4 per cent, in that of live stock. The value of the farm products of 1899 was 49.9 per cent greater than the value reported for 1889. A portion of this increase, and of that shown for implements and machinery, is doubtless the result of a more detailed enumeration in 1900 than in previous census years.

COUNTY STATISTICS.

Table 3 gives an exhibit of general agricultural statistics by counties.

TABLE 3.—NUMBER AND ACREAGE OF FARMS, AND VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, JUNE 1, 1900, WITH VALUE OF PRODUCTS OF 1899 NOT FED TO LIVE STOCK, AND EXPENDITURES IN 1899 FOR LABOR AND FERTILIZERS, BY COUNTIES.

COUNTIES.	NUMBER OF FARMS.		ACRES IN FARMS.		VALUES OF FARM PROPERTY.				EXPENDITURES.		
	Total.	With buildings.	Total.	Improved.	Land and improvements (except buildings).	Buildings.	Implements and machinery.	Live stock.	Value of products not fed to live stock.	Labor.	Fertilizers.
The State	178,694	171,963	16,636,719	6,953,785	\$106,106,650	\$30,075,520	\$8,750,060	\$37,433,771	\$66,076,620	\$3,171,090	\$172,510
Arkansas	2,015	1,989	240,457	112,111	1,504,300	482,560	135,830	849,723	783,154	25,220	1,510
Ashley	3,002	2,913	235,858	91,930	1,590,320	460,830	119,300	608,881	1,207,022	40,590	4,850
Baxter	1,618	1,539	189,289	67,113	837,000	273,450	81,750	381,254	504,721	15,920	1,430
Benton	4,428	4,316	416,273	216,601	5,270,330	1,148,630	278,480	1,098,162	1,554,788	67,860	2,470
Boone	2,453	2,384	268,148	116,274	1,811,040	488,330	118,140	619,752	667,167	22,160	420
Bradley	1,281	1,253	167,021	48,387	470,970	197,410	60,690	269,707	390,133	11,740	2,470
Calhoun	1,162	1,145	151,023	45,775	330,530	167,850	51,990	244,660	408,889	12,000	3,460
Carroll	2,838	2,839	271,851	102,166	1,425,180	491,130	112,130	528,124	662,352	19,340	380
Chicot	1,946	1,895	155,644	66,177	2,153,930	615,940	120,670	875,990	1,142,322	135,200	1,360
Clark	2,670	2,558	274,765	97,411	1,055,940	361,110	118,530	578,875	892,110	3,760	1,690
Clay	1,985	1,956	157,209	80,350	1,158,750	344,420	104,790	454,950	580,415	31,220	600
Cleburne	1,600	1,539	183,831	56,245	561,490	231,420	62,190	294,804	408,989	10,100	490
Cleveland	1,459	1,334	205,425	58,509	504,480	229,940	73,140	361,421	488,929	13,280	450
Columbia	3,074	2,919	360,774	141,837	1,082,960	320,250	135,990	559,163	1,189,459	93,800	19,880
Conway	3,003	2,375	202,131	114,253	1,418,330	394,570	138,190	475,357	1,126,474	54,520	1,220
Craighead	2,118	2,067	175,767	92,633	1,555,340	417,020	148,120	566,361	747,877	16,710	1,550
Crawford	3,059	2,914	225,845	105,628	1,613,610	451,770	122,900	535,456	1,057,344	121,260	7,710
Crittenden	2,003	1,933	119,373	76,585	2,569,230	401,800	120,510	448,247	1,231,346	116,640	2,780
Cross	1,528	1,429	113,123	49,584	707,400	202,550	67,020	332,237	528,764	22,570	270
Dallas	1,367	1,317	187,093	55,612	483,630	230,330	54,900	294,538	432,038	18,960	950
Desha	1,918	1,856	122,301	61,838	1,195,200	301,590	88,620	443,511	1,068,571	114,920	1,240
Drew	3,033	2,902	323,909	141,661	1,495,560	429,310	132,470	613,877	1,215,257	55,080	2,410
Faulkner	3,453	3,331	282,438	137,658	1,295,070	480,760	149,670	635,317	1,077,096	43,620	1,300
Franklin	2,704	2,562	240,303	117,677	1,279,450	433,530	142,770	574,531	956,317	24,000	2,570
Fulton	2,144	2,094	284,247	86,213	1,014,330	337,820	90,680	447,432	577,166	36,570	1,700
Garland	1,918	1,298	154,962	40,223	703,490	244,960	65,470	249,627	386,307	22,410	1,450
Grant	1,306	1,287	143,129	45,430	355,140	166,010	55,800	235,939	432,285	8,400	710
Greene	2,490	2,380	193,767	93,229	1,441,170	440,670	134,820	570,738	832,480	19,640	1,910
Hempstead	3,483	3,299	289,069	146,938	1,507,730	442,960	150,200	639,365	1,331,332	51,130	2,000
Hot Spring	1,679	1,632	182,667	57,523	645,510	250,300	77,090	353,706	553,104	18,140	3,440
Howard	2,329	2,194	247,901	86,597	908,440	292,020	95,140	474,256	759,146	16,360	170
Independence	3,325	3,166	292,040	123,691	1,854,320	556,040	163,390	674,419	1,114,039	20,850	1,460
Izard	2,892	2,246	252,778	100,310	803,380	328,440	96,200	447,318	653,305	22,910	530
Jackson	2,244	2,190	187,959	93,117	1,785,150	479,610	124,660	578,635	1,276,591	133,420	3,250
Jefferson	4,770	4,589	310,352	162,208	4,318,720	811,330	233,420	389,678	2,441,106	154,630	9,690
Johnson	2,559	2,412	206,497	95,400	1,346,130	406,990	103,360	479,564	398,348	26,470	2,910
Lafayette	1,203	1,180	116,630	45,344	496,790	180,780	55,700	270,581	557,167	20,560	3,120
Lawrence	2,006	1,948	216,260	90,553	406,350	110,610	530,200	354,060	65,270	1,590	1,690
Lee	2,982	2,917	193,363	105,905	2,130,220	543,450	141,180	533,868	1,270,562	58,800	3,170
Lincoln	2,356	2,309	214,025	88,879	1,456,090	312,950	123,050	473,539	1,054,581	48,760	680
Little River	2,027	1,944	176,213	67,462	1,065,500	260,330	85,020	435,738	386,952	23,370	1,090
Logan	3,225	3,008	253,140	126,244	1,600,540	564,110	149,300	601,280	1,019,015	17,940	930
Lonoke	3,493	3,441	279,296	157,897	2,766,830	770,150	225,110	795,212	1,795,455	98,050	2,550
Madison	3,035	3,023	393,198	125,326	1,599,610	452,480	127,100	621,963	775,661	24,920	420
Marion	1,656	1,612	197,027	67,742	1,265,440	299,550	74,940	371,739	442,495	7,270	1,320
Miller	1,967	1,892	182,936	74,560	917,770	286,080	85,520	451,893	763,070	34,210	3,470
Mississippi	1,720	1,637	124,684	76,655	2,403,340	473,180	140,750	537,336	1,419,104	246,580	4,790
Monroe	2,261	2,172	181,901	77,602	1,500,720	304,240	80,220	408,166	918,861	26,600	1,730
Montgomery	1,708	1,617	211,091	58,422	613,830	202,260	66,230	312,707	440,393	12,330	700
Nevada	2,248	2,145	245,274	102,945	804,940	348,310	111,380	495,435	816,760	20,200	4,370
Newton	1,992	1,965	253,301	60,973	745,270	222,840	61,790	344,610	455,031	9,280	810
Ouachita	2,030	2,046	263,448	94,497	704,280	308,640	94,970	407,755	663,536	27,220	3,390
Perry	1,173	1,094	86,424	36,701	563,640	123,000	47,310	193,385	349,336	7,120	3,880
Phillips	3,327	3,611	300,717	120,191	2,550,030	706,900	171,950	731,936	1,667,212	51,690	1,730
Pike	1,549	1,439	192,286	69,394	492,230	196,080	66,270	322,366	500,237	16,970	710
Poinsett	833	767	91,365	27,615	538,490	159,550	41,900	275,219	290,997	12,930	250
Polk	2,072	1,939	152,693	58,976	873,520	270,540	78,930	359,060	432,657	10,710	1,000
Pope	3,532	3,333	255,596	113,073	1,467,260	469,470	143,990	537,833	1,120,320	25,760	1,330
Prairie	1,869	1,792	188,321	94,473	1,303,330	321,160	104,510	450,463	633,330	31,070	460
Pulaski	4,053	3,931	223,423	124,210	3,590,430	711,810	245,060	741,541	1,631,032	100,140	4,490
Randolph	2,532	2,495	252,293	115,910	1,353,290	429,360	124,510	616,160	912,536	58,460	1,090
St. Francis	2,716	2,600	164,108	85,250	1,533,240	455,720	121,530	523,200	1,106,027	66,550	3,320
Saline	2,022	1,963	192,480	70,953	917,520	235,620	97,210	417,340	630,400	19,270	3,390
Scott	2,020	1,835	203,264	70,359	837,020	234,700	93,030	334,934	439,831	4,600	1,030
Searcy	2,060	2,002	207,841	67,513	807,560	267,600	80,090	376,387	533,484	15,630	20
Sebastian	3,099	2,923	229,070	116,633	2,558,170	654,230	175,910	676,515	1,169,377	72,770	9,270
Sewier	1,311	1,207	130,715	68,704	923,030	259,550	85,200	395,453	663,479	22,130	1,710
Sharp	2,103	2,013	263,120	84,241	974,530	324,540	102,010	475,393	665,547	24,530	600
Stone	1,260	1,217	141,073	44,148	496,530	169,030	55,430	259,242	337,495	3,100	1,120
Union	2,719	2,660	373,701	123,296	760,237	337,043	103,650	507,016	938,073	46,020	4,630
Van Buren	1,939	1,877	240,779	79,911	611,727	256,693	34,070	332,932	475,312	11,500	740
Washington	4,619	4,529	439,711	237,606	4,333,030	1,429,330	347,000	1,151,833	1,916,713	101,930	4,620
White	3,031	3,533	326,363	139,316	1,439,556	654,864	173,200	694,133	1,132,451	21,160	1,840
Woodruff	2,505	2,336	134,034	33,136	1,374,660	453,330	109,410	502,337	1,133,464	31,720	2,600
Yell	3,280	3,133	252,241	113,356	1,746,270	539,790	163,040	629,016	1,345,439	51,340	710

In nearly all counties the number of farms increased rapidly in the last decade. In Chicot, Jefferson, Lincoln, and Woodruff counties more than twice as many farms were reported in 1900 as in 1890, and in Desha, Little River, Poinsett, St. Francis, and Searcy counties the increases were nearly as great. Slight decreases were reported in Logan and Cleveland counties.

Increases in the total farm acreage, and also in the acreage of improved land, were reported for all counties except Franklin, Grant, and Pike. In Grant county both the total and improved acreages were less in 1900 than ten years before. The average size of farms is, as a rule, smallest for counties of the cotton belt, but there are no very marked variations from the state average of 93.1 acres.

For the state the average value of farms is \$756.50. In Benton, Chicot, Crittenden, Jackson, Jefferson, Lawrence, Lonoke, Mississippi, Pulaski, Sebastian, and Washington counties it is more than \$1,000, while in a few counties it is less than \$500. Most counties show substantial gains over the values reported in 1890.

The increase since 1890 in the value of implements and machinery has been relatively greater and more general than that for any other item of farm property. A marked gain is shown for each county, and in a number of instances the valuation has more than doubled.

Lee and Logan are the only counties in which the value of live stock reported in 1900 was less than in 1890.

The expenditure for labor in 1899 varied greatly in different sections of the state. In the counties of the cotton belt the average per farm was, as a rule, much higher than in the north central and western counties, where diversified farming prevails. In the latter counties very little cash is expended for labor; the farmers, as a rule, exchange work or pay in produce.

Although the total expenditure for fertilizers in 1899 was considerably greater than in 1889, the average per farm is still less than one dollar. The use of commercial fertilizers in Arkansas is confined principally to land devoted to the cultivation of cotton.

INCREASE IN THE NUMBER OF FARMERS IN ARKANSAS.

In this bulletin those individuals who, as owners, salaried managers, or tenants, operate farms with or without the assistance of hired laborers or members of their households, are designated "farmers." All others working on farms are spoken of as "farm laborers." The number of farmers at any given time corresponds closely to the number of farms.

From 1850 to 1900 the population increased from 209,897 to 1,311,564, or approximately sixfold, and the number of farms from 17,758 to 178,694, or more than tenfold. Consequently the number of farms, and hence the number of persons operating them, either as owners or tenants, increased faster than the population. This greater increase was recorded for every decade excepting from 1880 to 1890.

For the fifty years covered by the foregoing comparisons, data concerning the relative increase in the various

classes of the farm population are available only for the period from 1870 to 1890. During those years the number of farms, and hence of farm owners and tenants, increased approximately 152.4 per cent, while the total state population increased but 130.8 per cent. The number of males engaged in agriculture increased from 100,669 to 225,947. This gain of 124.4 per cent represents, approximately, the rate of increase in the number of persons living on farms. In the same period the number of males working for wages on farms increased from 45,248 to 69,803, or but 54.3 per cent. In 1870 there was 1 farm owner, or tenant, for every 2.03 male workers on farms. In 1890, there was 1 for every 1.80. In the earlier year there was 1 wage laborer for every 2.22 male workers on all kinds of farms, and in the later year, 1 only for every 3.24. The number of farm owners increased, approximately, 10 per cent faster than the agricultural population, while that population increased, approximately, 46.0 per cent faster than the number of male wage laborers. In the earlier year there were 85 male wage laborers for every 100 farms, while in 1890 there were but 56.

These figures, taken in connection with the population tables, furnish evidence of great social and economic changes on farms, as well as a shifting of the population. The net result of these changes has been to elevate materially the average status of the persons toiling on farms in Arkansas. In the movements between farm and town, and between agriculture and other occupations, the farm has lost more of its old constituency than it has gained of the new. Consequently, the migration from other occupations can not have been the main factor in bringing about this elevation in the average status of the agriculturist. It must have been produced mainly, if not exclusively, by movements within the farming population—movements by which some persons have been elevated from the position of wage service to that of farm ownership, and a still larger number from wage service to farm tenancy. The most noteworthy instance of this advancement in the average status of the farming population of Arkansas is found among the colored people. Of their number, 11,941 own a part, if not the whole, of the land which they till, and 34,962 are tenants. Nearly all of these colored farmers are the descendants of slaves, or were themselves slaves prior to the general emancipation, and the great mass of them have been employed on farms all their lives.

The following statistics of farm tenure for 1880, 1890, and 1900, present an exhibit of the changes in the past thirty years in the relative number of farm owners and tenants in Arkansas. To gain a complete understanding of the great actual and relative changes which have taken place in the social and economic condition of the agriculturists of this state, these statistics must be studied in connection with the "occupation" tables of past censuses and those of the present census, when published.

FARM TENURE.

Table 4 gives a comparative exhibit of farms operated by owners, cash tenants, and share tenants for 1880, 1890,

and 1900. Table 4a presents, for the two decades covered by Table 4, the per cent of increase in rural population, in the total number of farms, and in the number of farms of specified tenures. In Table 5 the tenure of farms for 1900 is given by race of farmer, and the farms operated by owners are subdivided into groups designated as farms operated by "owners," "part owners," "owners and tenants," and "managers." These groups comprise, respectively: (1) Farms operated by individuals who own all the land they cultivate; (2) farms operated by individuals who own a part of the land and rent the remainder from others; (3) farms operated under the joint direction and by the united labor of two or more individuals, one owning the farm or a part of it, and the other or others owning no part, but receiving for supervision or labor a share of the products; and (4) farms operated by individuals who receive for their supervision and other services a fixed salary from the owners.

The farms operated by tenants are divided into groups designated as farms operated by "cash tenants" and farms operated by "share tenants." These groups comprise, respectively: (1) Farms operated by individuals who pay a cash rental or a stated amount of labor or farm produce, and (2) farms operated by individuals who pay as rental a share of the products.

TABLE 4.—NUMBER AND PER CENT OF FARMS OF SPECIFIED TENURES: 1880 TO 1900.

YEAR.	Number of farms.	NUMBER OF FARMS OPERATED BY—			PER CENT OF FARMS OPERATED BY—		
		Owners. ¹	Cash tenants.	Share tenants.	Owners. ¹	Cash tenants.	Share tenants.
1900	178,694	97,554	27,303	53,837	54.6	15.3	30.1
1890	124,760	84,706	16,479	23,575	67.9	13.2	18.9
1880	94,483	65,245	9,916	19,272	69.1	10.5	20.4

¹Including "part owners," "owners and tenants," and "managers."

TABLE 4a.—PER CENT OF INCREASE IN RURAL POPULATION, IN THE TOTAL NUMBER OF FARMS, AND IN THE NUMBER OF FARMS OF SPECIFIED TENURES, FOR THE DECADES, 1880 TO 1890 AND 1890 TO 1900, AND FOR THE TWENTY-YEAR PERIOD, 1880 TO 1900.

PERIODS.	PER CENT OF INCREASE IN—					
	Rural population.	Total number of farms.	Number of farms operated by—			
			All owners.	All tenants.	Cash tenants.	Share tenants.
1890-1900	10.9	43.2	15.2	102.6	65.7	128.4
1880-1890	37.4	32.1	29.8	37.2	66.2	22.3
1880-1900	52.3	39.2	49.5	178.0	175.3	179.4

TABLE 5.—NUMBER AND PER CENT OF FARMS OF SPECIFIED TENURES, JUNE 1, 1900, CLASSIFIED BY RACE OF FARMER.

PART 1.—NUMBER OF FARMS OF SPECIFIED TENURES.

RACE.	Total number of farms.	Owners.	Part owners.	Owners and tenants.	Managers.	Cash tenants.	Share tenants.
The State	178,694	84,138	10,941	1,656	819	27,303	53,837
White	131,711	74,147	9,166	1,481	739	11,461	34,717
Colored ¹	46,983	9,991	1,775	175	80	15,842	19,120

PART 2.—PER CENT OF FARMS OF SPECIFIED TENURES.

The State	100.0	47.1	6.1	0.9	0.5	15.3	30.1
White	100.0	56.3	7.0	1.1	0.6	8.7	26.3
Colored ¹	100.0	21.2	3.8	0.4	0.2	33.7	40.7

¹Including 1 Chinese and 4 Indians.

In the decade 1880 to 1890 great additions were made to the rural population, partly by immigration from other states and from foreign countries. Large increases occurred also in the number of farms and the area of farm land. The ratio of owners to tenants, however, changed but little. As both increased by percentages somewhat smaller than that of the rural population, it follows that the number of farm laborers and of the nonfarming class residing in rural communities increased more rapidly than the number of farm owners and tenants.

The percentages shown in Table 4a for the last decade indicate a marked upward movement among Arkansas farmers. The number of farms operated by owners increased 15.2 per cent, while the rural population increased only 10.9 per cent. Had the number of farms operated by owners increased no faster than the rural population, the number of such farms in 1900 would have been less than it was by 3,615. In ten years, therefore, this number of farm laborers or farm tenants must have made their way to farm ownership, or the ranks of farm owners have been recruited to that extent from other sources, to the benefit of the general farming population.

In addition to this gain in the number of owners, a still greater actual and relative gain was made in the number of farm tenants. From 1890 to 1900 the number of tenants increased 102.6 per cent, although the gain in rural population was but 10.9 per cent. The gain in the number of tenants, above the gain that would have been made had the rate of increase been the same as that for rural population, was 36,720. The figures indicate that approximately one-half of the number of farm tenants in 1900 were farm laborers ten years before. Assuming that the gain in the number of owners was drawn principally from

the tenant class, it is probable that since 1890 at least 40,000 of the present farmers have made a distinct improvement in their industrial condition.

Of the farms of the state, 73.7 per cent are operated by white farmers and 26.3 per cent by colored farmers. Of the white farmers, 64.4 per cent own all or a part of the farms they operate, 35.0 per cent are tenants, and 0.6 per cent are managers. Of the colored farmers, 25.4 per cent are owners, 74.4 per cent are tenants, and 0.2 per cent are managers.

The relative number of farms rented for cash or for a share of the products is determined largely by the race of farmers and the kind of crops grown. In the northwestern counties, where diversified farming prevails and practically all farmers are white, share tenants greatly outnumber cash tenants, but in the leading cotton-growing counties, where nearly all farmers are colored, the numbers of cash and share tenants are about equal. In the cotton counties, most white tenants rent for cash, while among colored farmers local customs prevail, and the distinguishing line between cash tenure and share tenure is hard to draw. The reported increase in the number of cash tenants is largely in the cotton-growing counties.

No previous census has reported the number of farms operated by "part owners," "owners and tenants," or "managers," but it is believed that the number conducted by the last-named class is constantly increasing.

PROGRESS OF COLORED FARMERS.

In 1850 the number of colored farmers was practically a negligible quantity. In 1900 there were 46,983 colored farmers in Arkansas. Practically all of these are the descendants of slaves, and some of them were probably at one time slaves themselves. Of this number, 9,991 have become owners of all the land in their farms; 1,775, owners of part of the land; 175, owners operating their farms in partnership with tenants; 80, farm managers; and 34,962, cash or share tenants.

The Eleventh Census, in its report on Farms and Homes, gives valuable statistics relating to the number of colored farmers owning or renting farms. They are not, however, strictly comparable with the statistics of farm tenure collected by the division of agriculture, but taken in connection with the statistics given in Table 6, they furnished the only means of obtaining light upon the changes that have taken place in the status of negro farmers since 1890; and after making due allowance for variations, the comparison indicates that in Arkansas in the last decade the number of colored owners increased nearly four times as fast as the rural population, and more than twice as fast as the total colored population. It indicates, also, that the number of colored tenants increased six or seven times as fast as the colored population.

The figures indicate that approximately 1,800 colored tenants and farm laborers advanced in the last ten years to the position of farm owners, and that approximately 15,000 farm laborers became farm tenants. These numbers represent the excess of gain in the two classes of negro farmers over the gains made at the rate of increase in negro population.

OWNERSHIP OF RENTED FARMS.

The ownership of 77,211 of the 81,140 rented farms was ascertained by the enumerators. That of 3,929 was unreported. Titles to the 77,211 farms are vested in 40,067 owners or landlords, an average of approximately 193 farms to every 100 owners. Of these 40,067 landlords, 28,802 own 1 farm each; 9,626, from 2 to 5 farms each; 1,205, from 6 to 11; 428, from 12 to 21; 182, from 22 to 50; 21, from 51 to 88; and 3 hold titles to 377 farms, possessing 105, 120, and 152, respectively.

Of the 40,067 owners of rented farms, 37,838 reside in Arkansas. They own 71,697 farms, of which 62,440 are located in the same county in which the owner resides. Of the nonresident owners, 1,146 live in the South Central states, 847 in the North Central states, 79 in the North Atlantic states, 75 in the Western states, 67 in the South Atlantic states, and 15 in foreign countries.

FARMS CLASSIFIED BY RACE OF FARMER AND BY TENURE.

Tables 6 and 7 present the principal statistics for farms classified by race of farmer and by tenure.

TABLE 6.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY RACE OF FARMER AND BY TENURE, WITH PERCENTAGES.

RACE OF FARMER, AND TENURE.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Aver- age.	Total.	Per cent.	Total.	Per cent.
The State.....	178,694	93.1	16,636,719	100.0	\$181,416,001	100.0
White farmers.....	131,711	108.8	14,333,097	86.2	147,220,489	81.2
Colored farmers ¹	46,983	49.0	2,303,622	13.8	34,195,512	18.8
Owners.....	84,138	126.8	10,630,376	63.9	100,082,079	55.2
Part owners.....	10,941	119.9	1,812,307	7.9	12,232,525	6.7
Owners and tenants.....	1,656	147.8	244,834	1.5	2,201,193	1.2
Managers.....	819	390.0	319,450	1.9	5,675,379	3.1
Cash tenants.....	27,363	54.9	1,498,609	9.0	26,040,715	14.7
Share tenants.....	53,837	48.9	2,631,143	15.8	34,604,110	19.1

¹ Including 1 Chinese and 4 Indians.

TABLE 7.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY RACE OF FARMER AND BY TENURE.

RACE OF FARMER, AND TENURE.	AVERAGE VALUES PER FARM OF—				Gross income (products of 1899 not fed to live stock).	Per cent of gross income on total investment in farm property.
	Farm property, June 1, 1900.					
	Land and im- provements (except build- ings).	Build- ings.	Imple- ments and ma- chinery.	Live stock.		
The State.....	\$588	\$168	\$49	\$210	\$370	36.4
White farmers.....	626	196	57	239	380	34.0
Colored farmers ¹	482	90	27	129	341	46.9
Owners.....	638	220	63	268	393	33.1
Part owners.....	631	186	57	244	406	36.3
Owners and tenants.....	718	237	74	300	363	27.3
Managers.....	4,652	1,117	347	814	2,330	40.3
Cash tenants.....	640	124	33	174	408	41.8
Share tenants.....	409	90	25	119	269	41.9

¹ Including 1 Chinese and 4 Indians.

Many of the apparent anomalies here shown are the results of agricultural conditions peculiar to the cotton-growing districts of the South. In slavery days cotton was grown on large plantations cultivated by slave labor. Immediately after the emancipation of the slaves, this system gave way to one of hired labor, and this, in turn, was succeeded by a tenant system, under which the former laborers leased and cultivated land under contracts that placed both land and laborer under the supervision of the landlord or of an overseer appointed by him. Where this system prevails, the best and most highly improved land of the plantations is leased in small tracts, which appear in census reports as farms of negro-tenant farmers. This land is nearly all improved. The lands not thus leased, consisting of large unimproved tracts dotted over with small areas of improved land, constitute the farms of the plantation owners, as reported by the census. The leased land is the more valuable per acre, has a higher per cent of improved area, and produces crops having a greater value per acre, and representing in value a greater per cent of the capital invested in farm property.

The land in the cotton belt, including that leased, is much more valuable than the average land in other parts of the state, and also yields a greater gross income upon capital invested. Thus, in the cotton-growing counties of Chicot and Jefferson the average gross incomes of farms in 1899 were \$587 and \$512, while in Benton and Boone counties they were \$351 and \$272, respectively. The average gross incomes per acre in the two former counties were \$7.34 and \$7.87, and in the latter, \$3.74 and \$2.49, respectively. The percentages of gross income upon farm investments for the same counties were 34.9 and 39.0, and 19.9 and 22.0, respectively.

Most of the colored farmers of Arkansas are found in the counties of the cotton belt, in which agricultural conditions are as above described. Negroes constitute over eighty per cent of the farmers of Chicot and Jefferson counties, and less than one-tenth of 1 per cent in Benton and Boone counties. These facts must be borne in mind in drawing comparisons between the statistics given in Tables 6 and 7 for farms of white and colored farmers and for those of owners and tenants. The relatively high average gross income shown for farms operated by tenants and for those operated by negroes, must not be construed as evidence of superior farm management. It is the natural consequence, on the one hand, of conditions peculiar to the prevailing system of tenure, and, on the other hand, of the greater fertility and value of the land in those counties in which negroes predominate and the tenant system is most common.

FARMS CLASSIFIED BY AREA.

Tables 8 and 9 present the principal statistics for farms classified by area.

TABLE 8.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY AREA, WITH PERCENTAGES.

AREA.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	178,694	93.1	16,636,719	100.0	\$181,416,001	100.0
Under 3 acres.....	529	2.8	1,502	(¹)	394,453	0.2
3 to 9 acres.....	8,945	6.9	27,366	0.2	1,564,425	0.9
10 to 19 acres.....	20,191	15.0	302,722	1.8	3,192,791	4.5
20 to 49 acres.....	55,332	32.6	1,806,004	10.8	35,559,304	19.6
50 to 99 acres.....	38,595	74.3	2,867,527	17.2	35,519,509	19.6
100 to 174 acres.....	42,007	140.8	5,915,487	35.6	46,572,566	25.7
175 to 259 acres.....	10,569	208.8	2,207,178	13.3	19,256,072	10.6
260 to 499 acres.....	5,871	381.9	1,948,420	11.7	16,791,551	9.2
500 to 999 acres.....	1,239	655.2	811,737	4.9	8,498,021	4.7
1,000 acres and over.....	416	1,799.9	748,776	4.5	9,057,309	5.0

¹ Less than one-tenth of 1 per cent.

TABLE 9.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY AREA.

AREA.	AVERAGE VALUES PER FARM OF—					Per cent of gross income on total investment in farm property.
	Farm property, June 1, 1900.				Gross income (products of 1899, not fed to live stock).	
	Land and improvements (except buildings).	Buildings.	Implements and machinery.	Live stock.		
The State.....	\$588	\$168	\$49	\$210	\$370	36.4
Under 3 acres.....	208	298	28	217	216	28.9
3 to 9 acres.....	169	120	19	89	129	32.5
10 to 19 acres.....	237	70	17	82	191	47.0
20 to 49 acres.....	376	100	29	188	296	46.0
50 to 99 acres.....	513	154	46	207	346	37.6
100 to 174 acres.....	616	188	56	249	359	32.4
175 to 259 acres.....	1,041	814	94	374	655	35.9
260 to 499 acres.....	1,704	476	135	545	761	26.6
500 to 999 acres.....	4,421	1,056	327	1,055	1,788	26.1
1,000 acres and over.....	15,806	3,005	1,032	1,929	7,716	35.4

The group of medium-sized farms, containing from 100 to 174 acres each, comprises over one-third of the total farm acreage and more than one-fourth of the total value of farm property.

For the two groups of farms containing less than ten acres each, the average values given in Table 9 are relatively high, as these groups contain most of the florists' establishments of the state, and a number of city dairies. It should be borne in mind that the income from these industries is determined not so much by the acreage of land used, as by the amount of capital invested in buildings and implements and by the amounts expended for labor and fertilizers.

The average gross incomes per acre for the various groups classified by area are as follows: Farms under 3 acres, \$76.11; 3 to 9 acres, \$18.60; 10 to 19 acres, \$12.72;

20 to 49 acres, \$9.06; 50 to 99 acres, \$4.65; 100 to 174 acres, \$2.55; 175 to 259 acres, \$3.14; 260 to 499 acres, \$2.29; 500 to 999 acres, \$2.73; 1,000 acres and over, \$4.29.

Nearly one-half of the farms of over 1,000 acres each are cotton plantations; hence the average gross income per acre for this group is higher than for any of the 4 groups immediately preceding it.

FARMS CLASSIFIED BY PRINCIPAL SOURCE OF INCOME.

Tables 10 and 11 present the leading features of the statistics relating to farms classified by principal source of income. If the value of the hay and grain raised on any farm exceeds that of any other crop and constitutes at least 40 per cent of the total value of products not fed to live stock, the farm is classified as a hay and grain farm. If vegetables are the leading crop, constituting 40 per cent of the value of products, it is a vegetable farm. The farms of the other groups are classified in accordance with the same general principle. "Miscellaneous" farms are those whose operators do not derive 40.0 per cent of their income from any one class of products. Farms with no income in 1899 are classified according to the agricultural operations upon other farms in the same locality.

TABLE 10.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY PRINCIPAL SOURCE OF INCOME, WITH PERCENTAGES.

PRINCIPAL SOURCE OF INCOME.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	178,691	98.1	16,636,719	100.0	\$181,416,001	100.0
Hay and grain.....	15,376	94.5	1,452,724	8.8	18,235,743	10.1
Vegetables.....	2,508	67.8	168,804	1.0	2,779,060	1.5
Fruit.....	2,054	97.8	209,814	1.2	3,600,537	2.0
Live stock.....	30,784	114.4	3,515,778	21.2	84,852,905	19.2
Dairy produce.....	10,288	98.1	952,846	5.7	9,492,496	5.2
Tobacco.....	33	106.2	3,505	(1)	25,772	(1)
Cotton.....	70,912	70.2	4,978,984	29.9	66,734,225	36.8
Sugar.....	21	99.7	2,908	(1)	19,212	(1)
Flowers and plants.....	18	8.7	157	(1)	85,906	(1)
Nursery products.....	47	98.0	4,371	(1)	118,756	0.1
Miscellaneous.....	46,753	114.6	5,356,648	32.2	45,472,359	25.1

¹ Less than one-tenth of 1 per cent.

TABLE 11.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY PRINCIPAL SOURCE OF INCOME.

PRINCIPAL SOURCE OF INCOME.	AVERAGE VALUES PER FARM OF—					Per cent of gross income on total investment in farm property.
	Farm property, June 1, 1900.				Gross income (products of 1899 not fed to live stock).	
	Land and improvements (except buildings).	Buildings.	Implementations and machinery.	Live stock.		
The State.....	\$588	\$168	\$49	\$210	\$370	36.4
Hay and grain.....	756	187	58	185	306	25.8
Vegetables.....	707	209	47	145	340	39.7
Fruit.....	1,153	327	68	205	571	32.6
Live stock.....	582	208	58	288	328	29.0
Dairy produce.....	472	177	41	237	291	31.4
Tobacco.....	494	142	36	139	336	41.4
Cotton.....	593	134	42	172	421	44.7
Sugar.....	576	143	45	151	587	64.1
Flowers and plants.....	2,864	1,682	168	59	2,153	45.1
Nursery products.....	1,180	979	172	153	2,763	111.2
Miscellaneous.....	523	176	52	222	348	85.7

For the several classes of farms the average values per acre of products not fed to live stock are as follows: For farms deriving their principal income from flowers and plants, \$246.91; nursery products, \$29.71; cotton, \$5.99; sugar, \$5.88; fruit, \$5.84; vegetables, \$5.05; hay and grain, \$3.24; tobacco, \$3.16; dairy produce, \$3.13; miscellaneous products, \$3.03; and live stock, \$2.87.

The wide variations shown in the averages and in the percentages of gross income are largely due to the fact that in computing gross income no deduction is made for expenditures. For florists' establishments, nurseries, and market gardens the average expenditure for such items as labor and fertilizers represents a far larger percentage of the gross income than in the case of "hay and grain," "live stock," or "miscellaneous" farms. Were it possible to present the average net income, the variations shown would be comparatively slight.

FARMS CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK.

Tables 12 and 13 present data relating to farms classified by the reported value of products not fed to live stock.

TABLE 12.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK, WITH PERCENTAGES.

VALUE OF PRODUCTS NOT FED TO LIVE STOCK.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	178,694	93.1	16,636,719	100.0	\$181,416,001	100.0
\$0.....	2,105	48.7	102,463	0.6	1,081,100	0.6
\$1 to \$49.....	7,410	58.1	480,261	2.6	3,040,700	1.7
\$50 to \$99.....	13,317	61.5	818,565	4.9	5,857,180	3.2
\$100 to \$249.....	53,829	71.8	4,262,042	25.6	35,093,470	19.3
\$250 to \$499.....	62,772	90.7	5,698,026	34.2	59,164,331	32.6
\$500 to \$999.....	27,344	127.4	3,483,842	20.9	45,117,780	24.9
\$1,000 to \$2,499.....	6,589	220.5	1,221,623	7.4	19,731,160	10.9
\$2,500 and over.....	878	711.7	624,897	3.8	12,330,830	6.8

TABLE 13.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK.

VALUE OF PRODUCTS NOT FED TO LIVE STOCK.	AVERAGE VALUES PER FARM OF—					Per cent of gross income on total investment in farm property.
	Farm property, June 1, 1900.				Gross income (products of 1899 not fed to live stock).	
	Land and improvements (except buildings).	Buildings.	Implementments and machinery.	Live stock.		
The State.....	\$588	\$168	\$49	\$210	\$370	36.4
\$0.....	350	77	16	71	25	6.2
\$1 to \$49.....	203	63	16	68	72	16.2
\$50 to \$99.....	261	74	18	87	171	29.0
\$100 to \$249.....	329	102	27	134	370	39.2
\$250 to \$499.....	626	160	46	211	703	42.6
\$500 to \$999.....	943	274	86	347	1,360	38.2
\$1,000 to \$2,499.....	2,202	554	172	634	5,475	39.0
\$2,500 and over.....	9,618	2,096	665	1,665		

The absence of income in the first group is due in part to the fact that the enumerators could not always secure complete reports for farms where changes in ownership or tenancy had occurred shortly prior to the date of enumeration. The persons in charge of such farms on June 1, 1900, could not always give definite information concerning the products of the preceding year. The same statement is true, also, of some of the farms with reported incomes of less than \$100. To this extent the reports fall short of giving a complete exhibit of farm income in 1899. Other farms with small reported incomes are doubtless the suburban or summer homes of city merchants and professional men who derive their principal incomes from other than agricultural pursuits.

LIVE STOCK.

At the request of the various live-stock associations of the country, a new classification of domestic animals was

adopted for the census of 1900. The age grouping for neat cattle was determined by their present and prospective relations to the dairy industry and the supply of meat products. Horses and mules are classified by age, and neat cattle and sheep, by age and sex. The new classification permits a very close comparison with the figures published in previous census reports.

Table 14 presents a summary of live-stock statistics.

TABLE 14.—NUMBER OF DOMESTIC ANIMALS, FOWLS, AND BEES ON FARMS, JUNE 1, 1900, WITH TOTAL AND AVERAGE VALUES, AND NUMBER OF DOMESTIC ANIMALS NOT ON FARMS.

LIVE STOCK.	Age in years.	ON FARMS.			NOT ON FARMS.
		Number.	Value.	Average value.	
Calves.....	Under 1.....	254,473	\$1,418,961	\$5.58	12,868
Steers.....	1 and under 2.....	82,062	790,393	9.63	2,916
Steers.....	2 and under 3.....	36,893	494,935	13.42	1,709
Steers.....	3 and over.....	12,301	250,618	20.37	1,960
Bulls.....	1 and over.....	13,117	232,062	17.69	514
Heifers.....	1 and under 2.....	103,555	1,064,074	10.28	3,232
Cows kept for milk.....	2 and over.....	312,377	6,349,801	20.31	21,551
Cows and heifers not kept for milk.....	2 and over.....	79,557	1,284,763	16.15	990
Colts.....	Under 1.....	16,815	289,075	17.19	535
Horses.....	1 and under 2.....	14,179	381,735	26.92	612
Horses.....	2 and over.....	222,596	9,493,685	42.65	24,368
Mule colts.....	Under 1.....	8,734	209,940	24.04	130
Mules.....	1 and under 2.....	10,908	433,326	39.73	214
Mules.....	2 and over.....	155,859	9,346,438	60.16	7,039
Asses and burros.....	All ages.....	2,479	222,185	89.63	254
Lambs.....	Under 1.....	88,168	123,508	1.40	862
Sheep (ewes).....	1 and over.....	130,700	240,681	1.84	1,379
Sheep (rams and wethers).....	1 and over.....	88,061	78,128	1.92	425
Swine.....	All ages.....	1,713,307	2,981,309	1.74	53,010
Goats.....	All ages.....	51,839	58,788	1.13	1,777
Fowls: ¹					
Chickens ²		5,393,157			
Turkeys.....		140,661			
Geese.....		378,475	1,540,006		
Ducks.....		180,583			
Bees (swarms of).....		111,138	204,340	1.84	
Value of all live stock.....			\$7,483,771		

¹ The number reported is of fowls over 3 months old. The value is of all old and young.
² Including Guinea fowls.

The total value of all live stock on farms, June 1, 1900, was \$7,483,771. Of this amount 27.1 per cent represents the value of horses; 27.2 per cent, that of mules, asses, and burros; 16.9 per cent, that of dairy cows; 14.8 per cent, that of other neat cattle; 8.0 per cent, that of swine; 4.1 per cent, that of poultry; and 1.9 per cent, that of all other live stock.

No reports were secured of the value of live stock not on farms, but it is probable that such animals have higher average values than those on farms. Allowing the same averages, the total value of the domestic animals not on farms is \$2,280,170. Exclusive of the poultry and bees not on farms, the total value of live stock in the state is approximately \$39,763,941.

CHANGES IN LIVE STOCK ON FARMS.

The following table shows the changes since 1850 in the number of the most important domestic animals.

TABLE 15.—NUMBER OF SPECIFIED DOMESTIC ANIMALS ON FARMS: 1850 TO 1900.

YEAR.	Dairy cows.	Other neat cattle.	Horses.	Mules and asses.	Sheep. ¹	Swine.
1900.....	812,577	581,958	258,590	177,480	168,761	1,718,307
1890.....	830,165	682,524	186,874	126,496	248,999	1,505,214
1880.....	249,407	458,838	146,338	87,082	246,787	1,565,098
1870.....	128,959	228,976	92,013	36,202	161,077	841,129
1860.....	171,008	398,796	140,198	57,358	202,753	1,171,680
1850.....	98,151	199,559	60,197	11,559	91,256	886,727

¹Lambs not included.

A comparison between the numbers of domestic animals reported in 1890 and 1900 indicates an important change in the character of the live-stock industry. There has been a small decrease in the number of dairy cows, and a very marked decrease in the numbers of other neat cattle and of sheep. Horses, mules, and asses, on the other hand, show great increases, and swine have increased to some extent.

The decrease of 5.3 per cent in the number of dairy cows since 1890, is believed to be more apparent than real, as the production of milk more than doubled in the same period. It is probable that many of the 79,557 "cows and heifers not kept for milk" (see Table 14) were in reality milch cows, dry at the time of enumeration.

The decrease in the number of "other neat cattle" is probably even greater than indicated by the table. The number of "other neat cattle" given for 1900 includes 254,473 calves, and it is uncertain whether any calves were reported in 1890 under this designation. If not, there has been a decrease, for the decade, of 50.6 per cent in the number of "other neat cattle" over one year of age. The conclusion might be drawn that, owing to the rapid settlement of the state, the steadily enhancing value of farm lands, and the increasing acreage devoted to crops, the Arkansas farmer has partially abandoned stock raising as a source of revenue. It must be borne in mind, however, that the comparatively high market prices of beef and mutton which prevailed for a number of months prior to the date of enumeration, naturally led many farmers to reduce their herds and flocks to an unusual extent.

The rapid development of agriculture since the close of the Civil War is nowhere more clearly reflected than in the steady increase in the number of horses, mules, and asses. Nearly three times as many horses, and approximately five times as many mules and asses, were reported in 1900 as in 1870. In the last decade the number of horses increased 35.7 per cent, and the number of mules and asses, 40.3 per cent.

The sheep-raising industry has been on the decline since 1880, the decrease in the last ten years amounting to 30.8 per cent. Swine have fluctuated in number from decade to decade, the change since 1890 being an increase of 13.8 per cent.

ANIMAL PRODUCTS.

Table 16 is a summarized exhibit of the products of the animal industry.

TABLE 16.—QUANTITIES AND VALUES OF SPECIFIED ANIMAL PRODUCTS, AND VALUES OF POULTRY RAISED, ANIMALS SOLD, AND ANIMALS SLAUGHTERED ON FARMS IN 1899.

PRODUCTS.	Unit of measure.	Quantity.	Value.
Wool.....	Pounds.....	686,474	\$118,922
Mohair and goat hair.....	Pounds.....	1,763	487
Milk.....	Gallons.....	1109,861,398	6,912,459
Butter.....	Pounds.....	21,585,258	
Cheese.....	Pounds.....	18,385	
Eggs.....	Dozens.....	25,694,860	2,323,509
Poultry.....			2,179,634
Honey.....	Pounds.....	1,405,820	156,948
Wax.....	Pounds.....	59,340	
Animals sold.....			3,752,843
Animals slaughtered.....			4,927,481
Total value.....			20,377,278

¹Includes all milk produced.

The value of animal products in 1899 was \$20,377,278, or 30.8 per cent of the gross farm income. Of the above amount, 42.6 per cent represents the value of animals sold and animals slaughtered on farms; 33.9 per cent, that of dairy produce; 22.1 per cent, that of poultry and eggs; and 1.4 per cent, that of wool, mohair, honey, and wax.

DAIRY PRODUCE.

The production of milk in 1899 was 55,535,720 gallons greater than in 1889, an increase of over one hundred per cent. The quantity of butter made on farms, however, increased but 37.3 per cent, and that of cheese decreased 13.8 per cent, indicating that the making of butter and cheese is being gradually transferred from the farm to the creamery and cheese factory.

Of the \$6,912,459 given in Table 16 as the value of all dairy products in 1899, \$5,866,128, or 84.9 per cent, represents the value of such products consumed on farms, and \$1,046,331, or 15.1 per cent, the amount realized from sales. Of the latter sum, \$596,785 was derived from the sale of 3,797,646 pounds of butter; \$443,756, from 4,238,852 gallons of milk; \$4,941, from 6,008 gallons of cream; and \$849, from 8,032 pounds of cheese.

POULTRY AND EGGS.

The total value of the poultry products of 1899 was \$4,508,143, of which 51.7 per cent represents the value of eggs and 48.3 per cent that of poultry raised. Of the farmers of the state, 156,922, or 87.8 per cent, reported poultry in 1900. The average return per farm was \$14.84 for eggs, and \$13.89 for poultry. The number of eggs produced has practically doubled during each decade since 1879. In that year the production was 6,610,050 dozens; in 1889, 13,371,909; and in 1899, 25,694,860.

WOOL.

Although 30.8 per cent fewer sheep were reported in 1900 than in 1890, an increase of 24.2 per cent is shown in the quantity of wool produced. This is the result of a marked improvement in the grade of sheep kept, and a consequent increase in the average weight of fleeces. In 1880, the average weight was 2.3 pounds; in 1890, 2.4 pounds; and in 1900, 3.3 pounds.

HONEY AND WAX.

In 1900, 22,182 farmers reported, in the aggregate, 111,138 swarms of bees. They obtained, in 1899, 26.5 per cent more honey and 139.2 per cent more wax than was reported for 1889.

HORSES, MULES, AND DAIRY COWS ON SPECIFIED CLASSES OF FARMS.

Table 17 presents, for the leading groups of farms, the number of farms reporting horses, mules, and dairy cows, and the average number of these animals per farm. In computing the averages presented, only those farms which report the kind of stock under consideration are included.

TABLE 17.—HORSES, MULES, AND DAIRY COWS ON SPECIFIED CLASSES OF FARMS, JUNE 1, 1900.

CLASSES.	HORSES.		MULES.		DAIRY COWS.	
	Farms reporting.	Average per farm.	Farms reporting.	Average per farm.	Farms reporting.	Average per farm.
Total	121,750	2.08	88,824	1.97	126,235	2.48
White farmers	97,095	2.18	68,957	2.12	104,873	2.59
Colored farmers	24,655	1.69	24,867	1.57	21,362	1.94
Owners ¹	74,491	2.26	51,785	2.11	82,439	2.80
Managers	618	3.87	508	9.09	596	3.89
Cash tenants	16,920	1.87	15,028	1.84	14,842	2.00
Share tenants	29,715	1.72	21,508	1.55	28,358	1.76
Under 20 acres	11,771	1.49	7,867	1.29	9,696	1.77
20 to 99 acres	62,152	1.88	45,749	1.67	64,093	2.04
100 to 174 acres	32,480	2.22	22,938	1.99	35,798	2.67
175 to 259 acres	8,772	2.68	7,080	2.47	9,717	3.50
260 acres and over	6,575	3.68	5,690	4.61	6,931	5.03
Hay and grain	9,540	2.15	5,997	2.14	8,272	2.27
Vegetable	1,572	1.90	816	1.87	1,181	2.05
Fruit	1,547	2.12	766	1.97	1,463	2.07
Live stock	23,864	2.40	14,886	2.24	25,429	2.78
Dairy	7,543	2.09	4,115	1.85	10,238	3.08
Cotton	42,614	1.90	38,756	1.90	40,500	2.18
Miscellaneous ²	35,070	2.08	28,488	1.90	39,152	2.50

¹Including "part owners" and "owners and tenants."
²Including florists' establishments, nurseries, tobacco, and sugar farms.

In Arkansas, as in other states where cotton is a staple crop and much of the farm labor is performed by negroes, large numbers of mules are used as work animals. For most classes of farms the average numbers of mules and horses are about equal, but on farms operated by managers, and on farms of the largest area, more mules than horses are reported. This is due to the fact that these two classes include a relatively large number of cotton plantations.

If the numbers of horses and mules be combined, the average number of work animals per farm compares favorably with the corresponding figures for the intensively cultivated farms of New England.

CROPS.

The following table gives the statistics of the principal crops of 1899.

TABLE 18.—ACREAGES, QUANTITIES, AND VALUES OF PRINCIPAL FARM CROPS IN 1899.

CROPS.	Acres.	Unit of measure.	Quantity.	Value.
Corn	2,817,742	Bushels	44,144,098	\$17,572,170
Wheat	379,458	Bushels	2,440,970	1,338,916
Oats	280,115	Bushels	3,909,000	1,268,101
Barley	304	Bushels	2,309	1,278
Rye	2,883	Bushels	19,125	11,428
Buckwheat	53	Bushels	421	334
Broom corn	879	Pounds	304,680	12,588
Rice	25	Pounds	8,630	235
Kafir corn	109	Bushels	1,722	808
Flaxseed	40	Bushels	408	414
Grass seed		Bushels	81	137
Clover seed		Bushels	416	1,902
Hay and forage	239,426	Tons	283,416	1,913,163
Cotton seed		Tons	1,340,580	3,382,308
Cotton	1,641,855	Bales	709,880	24,671,445
Tobacco	1,887	Pounds	831,700	85,395
Hemp	1	Pounds	420	20
Hops	1	Pounds	530	55
Dry beans	1,490	Bushels	15,582	17,046
Dry pease	31,414	Bushels	245,894	255,709
Peanuts	5,233	Bushels	78,237	69,632
Castor beans	18	Bushels	85	80
Potatoes	26,439	Bushels	1,783,969	855,140
Sweet potatoes	13,271	Bushels	998,767	534,616
Onions	418	Bushels	53,250	48,882
Miscellaneous vegetables	44,937			2,196,705
Sugar cane	450	Tons	318	52
Sugar cane kept for seed		Tons	1,840	6,440
Sugar		Pounds	50	2
Sirup		Gallons	44,819	18,791
Sorghum cane	17,684	Tons	373	1,075
Sorghum sirup		Gallons	1,223,691	367,741
Small fruits	10,984			604,323
Grapes	32,613	Centals	36,211	4104,808
Orchard fruits	3221,007	Bushels	3,359,865	61,252,203
Tropical fruits				236
Nuts				8,898
Forest products				2,468,718
Flowers and plants	25			25,830
Seeds	18			2,447
Nursery products	868			181,045
Miscellaneous				981
Total	6,241,699			69,272,212

¹Exclusive of 14,643 tons, valued at \$144,720, sold in seed cotton.
²Sold as cane.
³Estimated from number of trees or vines.
⁴Including value of raisins, wine, etc.
⁵Including value of cider, vinegar, etc.

Of the total value of crops in 1899, cotton contributed 47.3 per cent; corn, 29.7 per cent; other cereals, including rice, 4.5 per cent; vegetables, including potatoes, sweet potatoes, and onions, 6.1 per cent; forest products, 4.2 per cent; fruits and nuts, 3.3 per cent; hay and forage, 3.2 per cent; and all other products, 1.7 per cent.

The acreage devoted to corn, 44.2 per cent of the total area in crops, yielded only 29.7 per cent of the total receipts. Cotton, comprising 31.3 per cent of the total acreage, yielded 47.3 per cent of the total receipts.

The average yield per acre of hay and forage was 1.2 tons, and the average values were \$6.63 per ton and \$7.99 per acre. The average values per acre of other crops were as follows: Flowers and plants, \$1,033.20; nursery products, \$150.97; onions, \$116.94; tobacco, \$45.25; sweet potatoes, \$40.28; potatoes, \$32.29; cotton, including seed, \$17.09; peanuts, \$13.31; dry beans and dry pease, \$8.29; cereals, \$6.79; and orchard fruits, \$5.67. The crops yielding the greatest returns were grown upon very highly improved land. Their production required relatively large expenditures for labor and fertilizers.

COTTON.

The following table is an exhibit of the changes in cotton production since 1849.

TABLE 19.—ACREAGE AND PRODUCTION OF COTTON: 1849 TO 1899.

YEAR.	ACREAGE.		PRODUCTION.		
	Total.	Per cent of increase.	Com-mercial bales.	Pounds.	Per cent of increase.
1899.....	1,041,855	13.5	709,880	352,968,804	7.0
1889.....	1,700,578	63.1	691,494	329,842,638	19.7
1879.....	1,042,976		608,256	275,539,968	156.0
1869.....			247,968	107,618,112	134.2
1859.....			367,893	163,489,885	525.5
1849.....			65,344	26,137,600	

¹ Decrease.

In 1899, 118,697 farmers, or approximately two-thirds of the total number, reported the production of cotton. Every county in the state was represented, but in the west-central and extreme northwestern counties the acreages reported were relatively very small. For the state the average acreage devoted to cotton was 31.0 acres per square mile of land surface, and 13.8 acres per farm reporting. The three leading cotton-growing counties, Jefferson, Phillips, and Lee, reported an average area in cotton of more than eighty acres per square mile, or nearly one-half of their improved farm land. In 1879, 29.0 per cent of the improved farm land of the state was devoted to cotton; in 1889, 31.1 per cent; and in 1899, 23.6 per cent.

Although, owing to the low range of prices which followed the record-breaking crop of 1898 the acreage planted in cotton in the spring of 1899 was below the normal, the total production exceeded that of the preceding season and showed an advance of 7.0 per cent over the crop of 1889. For the state, the average yield per square mile of land surface was 13.4 commercial bales, while for the three counties, Jefferson, Phillips, and Lee, the average was over forty bales.

The total value of the crop of 1899, including both lint and seed, was \$28,053,813, the average values of the products being \$236.35 per farm and \$17.09 per acre.

CEREALS.

Table 20 is an exhibit of the changes in cereal production since 1849.

TABLE 20.—ACREAGE AND PRODUCTION OF CEREALS: 1849 TO 1899.

PART 1.—ACREAGE.

YEAR. ¹	Barley.	Buck-wheat.	Corn.	Oats.	Rye.	Wheat.
1899.....	304	53	2,317,742	280,115	2,888	379,458
1889.....	106	338	1,648,443	288,322	2,470	140,464
1879.....	157	92	1,298,310	166,513	3,290	204,034

¹ No statistics of acreage were secured prior to 1879.

PART 2.—BUSHELS PRODUCED.

1899.....	2,809	421	44,144,098	3,909,000	19,125	2,449,970
1889.....	994	5,074	33,982,318	4,180,877	15,181	955,668
1879.....	1,952	548	24,156,417	2,219,822	22,387	1,269,715
1869.....	1,921	226	18,332,145	528,777	27,645	741,736
1859.....	3,158	509	17,823,588	475,268	78,092	957,601
1849.....	177	175	8,893,939	656,183	8,047	199,639

Each decade since 1850, except the Civil War decade, shows a marked increase in the total production of cereals. Corn is by far the most important, occupying 77.8 per cent of the total area in cereals in 1899, and being reported by 159,507 farmers, or 89.3 per cent of the total number in the state. The acreage increased 40.6 per cent in the last decade.

Barley and buckwheat are of little importance. The acreage under oats decreased 2.8 per cent in the last decade, but shows a large increase since 1879. The smallness of the acreage reported in 1899 is largely due to an unfavorable season. The production of rye decreased from 1859 to 1889, but in the last decade increased 26.0 per cent. The acreage and production of wheat have varied greatly from decade to decade, but in 1899 both were more than twice as great as in 1889. Seasonal conditions doubtless account in large part for these wide fluctuations.

The acreage given for cereals does not include 62,756 acres of grain cut green for hay, nor 16,788 acres devoted to corn, nonsaccharine sorghum, and similar crops grown for forage or ensilage.

SUGAR CANE AND SORGHUM CANE.

The compilation of statistics pertaining to West Indian or ribbon sugar cane, as distinguished from sorghum cane, is complicated, in states where both are grown, by the local custom of referring to both as "sugar cane." This naturally tended to confuse the enumerators, and made the task of separating the statistics of the two crops extremely difficult. This difficulty was increased by the fact that the severe frosts of 1899 so injured the crop of ribbon cane that the average yield was practically the same as that of sorghum cane, while under normal conditions it yields twice as many tons per acre and twice as much sirup per ton of cane. The greatest care, however, has been observed in compilation, and the figures presented are believed to be substantially correct.

From the 460 acres of sugar cane grown in 1899, 50 pounds of sugar and 44,819 gallons of sirup were produced. In addition, 1,840 tons of cane, valued at \$6,440, were kept for seed. The only census year prior to 1900 in which statistics of sugar production in Arkansas were collected, was 1870, in which year 110,400 pounds of sugar and 72,008 gallons of sirup were reported. In making comparisons between the statistics for these two years, allowance must be made for the fact that fully sixty per cent of the crop of 1899 was destroyed by frost. A normal yield from the acreage reported in that year would have produced approximately 112,048 gallons of sirup, a gain of more than twenty-five per cent over the production of sugar and sirup in 1869.

In Arkansas, as in all other states where ribbon cane is grown, except Louisiana, the method of manufacture is that known as the "open-kettle" process, which produces a superior grade of sirup, but a low grade of sugar. Consequently, the tendency is to make a decreasing amount of sugar and greater quantities of sirup. This is shown by

the fact that in 1869, 110,400 pounds of sugar were made, while in 1899 the total production was but 50 pounds.

In 1899, 17,684 acres of land were devoted to the cultivation of sorghum cane grown for sirup, a decrease of 9,687 acres from the area grown in 1889. The production of sirup in 1899 was 1,223,691 gallons, or 645,261 gallons less than that reported ten years before. These figures take no account of the acreage of sorghum grown for forage.

ORCHARD FRUITS.

The changes in orchard fruits since 1890 are shown in the following table.

TABLE 21.—ORCHARD TREES AND FRUITS: 1890 AND 1900.

FRUITS.	NUMBER OF TREES.		BUSHELS OF FRUIT.	
	1900.	1890.	1899.	1889.
Apples.....	7,484,145	2,114,708	2,811,182	1,894,346
Apricots.....	3,958	2,703	891	1,509
Cherries.....	109,001	33,083	7,889	8,002
Peaches.....	4,099,528	2,769,052	338,642	8,001,125
Pears.....	202,109	26,265	24,503	12,955
Plums and prunes.....	1,082,749	375,780	174,734	186,574

Fruit is grown most extensively in the northwestern part of the state. The 9 counties of Benton, Boone, Carroll, Crawford, Franklin, Johnson, Madison, Newton, and Washington reported in 1900 nearly one-half of the total number of fruit trees, exclusive of plum trees, which latter can not properly be included, as it is known that the figures given include a large number of wild plum trees, which grow in thickets upon the river bottoms. With the exception of peaches, comparatively little fruit is grown in the counties of the cotton belt. In 1900 the 3 extreme northwestern counties, Benton, Madison, and Washington, reported 50.6 of all the apple trees in the state. In 1890 they reported but 39.2 per cent, showing that the rate of gain in these counties was much greater than in the rest of the state.

The number of apple, cherry, plum, and prune trees reported in 1900 was approximately three times as great as in 1890, while the number of pear trees increased still more rapidly. The increase in the number of apricot and peach trees amounted to 46.2 and 48.0 per cent, respectively.

In 1900, 57.2 per cent of all fruit trees were apple trees; 31.6 per cent were peach trees; 8.3 per cent were plum and prune trees; and 2.9 per cent were apricot, cherry, pear, and unclassified fruit trees. In addition to the number of trees given in Table 21, unclassified fruit trees to the number of 55,562 were reported, with a yield of 7,524 bushels of fruit.

The quantity of fruit produced in any given year is determined largely by the nature of the season. Comparisons between the crop of 1889 and that of 1899 have little significance, because in the latter year there was an almost complete failure of peaches and apricots, and very small yields of other fruits.

The value of orchard products, given in Table 18, includes the value of 3,191 barrels of cider, 2,139 barrels of vinegar, and 2,045,910 pounds of dried and evaporated fruits.

Approximately four-fifths of these products were reported by the 6 northwestern counties, for which the production of dried and evaporated fruits on farms was as follows: Washington, 932,780 pounds; Benton, 312,990 pounds; Madison, 274,530 pounds; Boone, 97,310 pounds; Carroll, 69,830 pounds; and Newton, 54,840 pounds.

SMALL FRUITS.

Of the 10,984 acres devoted to small fruits, 8,338 acres, or 75.9 per cent, were reported by 4 counties, as follows: Benton, 2,141 acres; Crawford, 2,502 acres; Washington, 2,608 acres; and White, 1,087 acres. The first 3 are in the extreme northwestern part of the state. Counties of the cotton belt reported inconsiderable acreages in small fruits. Strawberries occupied 9,611 acres, or 87.5 per cent of the total area, and yielded 12,667,740 quarts. The acreage and production of other berries were as follows: Blackberries and dewberries, 779 acres and 969,290 quarts; currants, 10 acres and 6,990 quarts; gooseberries, 29 acres and 43,970 quarts; raspberries and Logan berries, 473 acres and 348,450 quarts; and other small fruits, 82 acres and 61,550 quarts. These small fruits were grown by 8,285 farmers, and the average value per farm reporting was \$72.94. The tropical fruits reported in Table 18 consisted almost entirely of figs.

Grapes were grown in 1899 by 12,019 farmers, who obtained 36,211 centals of fruit from 1,178,136 vines. The value of the grapes, including the value of 1,730 pounds of raisins and 92,591 gallons of wine made on farms, was \$104,803.

VEGETABLES.

The total value of all vegetables grown in the state in 1899 including potatoes, sweet potatoes, and onions, was \$3,635,343, of which 23.5 per cent represents the value of potatoes; 14.7 per cent, that of sweet potatoes; 1.4 per cent, that of onions; and 60.4 per cent, that of miscellaneous vegetables. In the growing of miscellaneous vegetables, 44,937 acres were used. Of this area the products of 34,991 acres were not reported in detail. Of the remaining 9,946 acres, 5,162 were devoted to watermelons; 2,388 acres, to musk and other melons; 948 acres, to cabbages; 850 acres, to tomatoes; 220 acres, to sweet corn; 205 acres, to cucumbers; and 173 acres, to other vegetables.

FLORICULTURE.

Floriculture is a relatively unimportant industry in Arkansas, as there are no large cities to create a market for its products. In 1899 the operators of 32 farms raised flowers and foliage plants valued at \$25,830, but of this number only 18 derived their principal income from this source. These 18 commercial florists had a gross income of \$38,765, of which \$23,265 was derived from flowers and plants and \$15,500 from other products. The capital invested was \$85,906—\$51,545 in land, \$30,280 in buildings and other improvements, \$3,015 in implements, and \$1,066 in live stock. The expenditure for fertilizers was \$407, and for labor, \$9,695.

A total of 122,940 square feet of land under glass was

reported by the operators of 182 farms. This includes, in addition to the 56,171 square feet reported by the 18 florists, 66,769 square feet reported by 114 farmers who made use of glass in growing vegetables.

NURSERIES.

The 47 nurseries in the state reported net products valued at \$129,867, of which amount \$119,667 was derived from the sale of nursery stock and \$10,200 from the sale of other products. The total area of land used was 4,371 acres, making the gross income per acre \$29.71. The total investment in land, buildings, live stock, and implements was \$116,756.

LABOR AND FERTILIZERS.

The total expenditure for labor on farms in 1899, including the value of board furnished, was \$3,171,090, an average of \$18 per farm. The average was highest for the

most intensively cultivated farms, having been \$539 for florists' establishments, \$581 for nurseries, \$64 for fruit farms, \$42 for tobacco farms, \$28 for vegetable farms, \$24 for cotton farms, \$14 for hay and grain farms, \$13 for live-stock farms, and \$8 for dairy farms. "Managers" expended, on an average, \$389; "cash tenants," \$24; "owners and tenants," \$23; "part owners," \$22; "owners," \$18; and "share tenants," \$7. White farmers expended \$20 per farm, and colored farmers, \$12.

Fertilizers purchased in 1899 cost \$172,510; an average of less than \$1 per farm, but an increase since 1890 of 83.6 per cent. The average expenditure was greatest for nurseries, amounting to \$23. For fruit and sugar farms the average was \$4; for florists' establishments and vegetable farms, \$3; for hay and grain, live-stock, and cotton farms, \$1; and for dairy and tobacco farms, less than \$0.50.

CENSUS BULLETIN.

No. 154.

WASHINGTON, D. C.

April 12, 1902.

MANUFACTURES.

OHIO.

HON. WILLIAM R. MERRIAM,

Director of the Census.

SIR: I transmit herewith, for publication in bulletin form, the statistics of manufacturing and mechanical industries for the state of Ohio for the census year 1900, taken in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that "The schedules of inquiries relating to the products of manufacturing and mechanical establishments shall embrace the name and location of each establishment; character of organization, whether individual, cooperative, or other form; date of commencement of operations; character of business or kind of goods manufactured; amount of capital invested; number of proprietors, firm members, copartners, or officers, and the amount of their salaries; number of employees, and the amount of their wages; quantity and cost of materials used in manufactures; amount of miscellaneous expenses; quantity and value of products; time in operation during the census year; character and quantity of power used; and character and number of machines employed."

In each of the above particulars the requirements of the law have been observed, but certain of the data thus elicited are reserved for publication in the final volumes.

There were 101 cities and villages in the state withdrawn from the enumerators and their manufacturing statistics collected by special agents, in accordance with the further provision of section 7 of the census act. Wherever the phrase "urban manufactures" is used in this bulletin, it applies only to those cities and villages which were withdrawn from the enumerators and committed to special agents, and only to manufacturing establishments within the corporate limits of such places.

Twelve cities in Ohio contain a population exceeding 20,000 each: Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Hamilton, Lima, Springfield, Toledo, Youngstown, and Zanesville. The manufacturing statistics of these 12 cities are presented by specified industries, and the statistics of Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Springfield, Toledo, Youngstown, and Zanesville are presented in comparison with

the returns of the Eleventh Census. The statistics of Hamilton and Lima were not shown separately in 1890, and comparisons with that year are, therefore, not possible in these cases.

The text of the accompanying report was prepared by Dr. Frederick S. Hall, of the division of manufactures.

The statistics of Ohio are presented in 9 tables: Table 1 showing comparative figures for the state at the several censuses; Table 2 showing all the industries of the state divided between hand trades and the manufactures proper, and also the statistics of governmental establishments, educational, eleemosynary, and penal institutions, and establishments with a product of less than \$500, which three latter classes were not reported at previous censuses; Table 3 showing the statistics of the 27 leading industries of the state for 1890 and 1900; Table 4 showing the totals for the cities of Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Springfield, Toledo, Youngstown, and Zanesville at the censuses of 1890 and 1900; Table 5 showing the urban manufactures of the state in comparison with the totals for the entire state and the state exclusive of the cities and villages withdrawn from the enumerators; Table 6 showing the statistics for the state by counties; Table 7 showing the statistics for the state by specified industries; Table 8 showing the statistics for the cities of Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Hamilton, Lima, Springfield, Toledo, Youngstown, and Zanesville by specified industries; and Table 9 showing the totals for all industries in each of the cities and villages withdrawn from the enumerators (exclusive of those shown in Table 8).

Table 1 shows the growth of manufactures in Ohio for the half century which terminates with the Twelfth Census. The manufacturing statistics of the censuses prior to 1850 were too imperfect and fragmentary in character to make it proper to reproduce them in such a table as a measure of industrial growth in the first half of the century. Owing to changes in the method of taking the census, comparisons between the earlier and later decades, represented in Table 1, should be drawn only in the most general way. Nevertheless, the rate of growth in Ohio

manufactures may be fairly inferred from the figures given.

In drafting the schedules of inquiry for the census of 1900 care was taken to preserve the basis of comparison with prior censuses. Comparison may be made safely with respect to all the items of inquiry except those relating to capital, salaried officials, clerks, etc., and their salaries, the average number of employees, and the total amount of wages paid. *Live capital, that is, cash on hand, bills receivable, unsettled ledger accounts, raw materials, stock in process of manufacture, finished products on hand, and other sundries, was first called for at the census of 1890. No definite attempt was made, prior to the census of 1890, to secure a return of live capital invested.*

Changes were made in the inquiries relating to employees and wages in order to eliminate defects found to exist on the form of inquiry adopted in 1890. At the census of 1890 the average number of persons employed during the entire year was called for, and also the average number employed at stated weekly rates of pay, and the average number was computed for the actual time the establishments were reported as being in operation. At the census of 1900 the greatest and least numbers of employees were reported, and also the average number employed during each month of the year. The average number of wage-earners (men, women, and children) employed during the entire year was ascertained by using 12, the number of calendar months, as a divisor into the total of the average numbers reported for each month. This difference in the method of ascertaining the average number of wage-earners during the entire year may have resulted in a variation in the number, and should be considered in making comparisons.

At the census of 1890 the number and salaries of proprietors and firm members actively engaged in the business or in supervision were reported, combined with clerks and other officials. In cases where proprietors and firm members were reported without salaries, the amount that would ordinarily be paid for similar services was estimated. At the census of 1900 only the number of proprietors and firm members actively engaged in the industry or in supervision was ascertained, and no salaries were reported for this class. It is therefore impossible to compare the number and salaries of salaried officials of any character for the two censuses.

Furthermore, the schedules for 1890 included in the wage-earning class, overseers, foremen, and superintendents (not general superintendents or managers), while the census of 1900 separates from the wage-earning class such salaried employees as general superintendents, clerks, and salesmen. It is possible and probable that this change in the form of the question has resulted in eliminating from the wage-earners, as reported by the present census, many high-salaried employees included in that group for the census of 1890.

In some instances, the number of proprietors and firm members, shown in the accompanying tables, falls short of the number of establishments reported. This is accounted

for by the fact that no proprietors or firm members are reported for corporations or cooperative establishments.

The reports show a capital of \$605,792,266 invested in manufactures and mechanical industries in the 32,398 establishments reporting for the state of Ohio. This sum represents the value of land, buildings, machinery, tools, and implements, and the live capital utilized, but does not include the capital stock of any of the manufacturing corporations of the state. The value of the products is returned at \$832,438,113, to produce which involved an outlay of \$29,351,045 for salaries of officials, clerks, etc.; \$153,955,330 for wages; \$69,728,206 for miscellaneous expenses, including rent, taxes, etc.; and \$447,849,677 for materials used, mill supplies, freight, and fuel. It is not to be assumed, however, that the difference between the aggregate of these sums and the value of the products is, in any sense, indicative of the profits in the manufacture of the products during the census year. The census schedule takes no cognizance of the cost of selling manufactured articles, or of interest on capital invested, or of the mercantile losses incurred in the business, or of depreciation in plant. The value of the product given is the value as obtained or fixed at the shop or factory. This statement is necessary in order to avoid erroneous conclusions from the figures presented.

The value of products for the state of Ohio, \$832,438,113, is the gross value, and not the net or true value. The difference between these two should be carefully noted. The gross value is found by adding the value of products in the separate establishments. But the finished product of one establishment is often the raw material for another. In such cases the value of the former reappears in the latter, and thus the original cost of certain materials may be included several times in the gross value. The net or true value is found by subtracting from the gross value the value of all materials purchased in a partly manufactured form. In this way the duplications in the gross value are eliminated.

At the census of 1890 the schedule was so framed that it was impossible to find the net or true value. In the present census the schedule asked for the value of the materials in two classes, those purchased in the crude state and those purchased in the partly manufactured form. From the answers to these questions the net or true value of products may be computed. Thus, for Ohio, the gross value of products for 1900 was \$832,438,113. The value of materials purchased in a partly manufactured form was \$309,188,906. The difference, \$523,249,207, is the net or true value of products, and represents the value of all crude materials used, together with the increase in value resulting from the various processes of manufacture.

Very respectfully,



Chief Statistician for Manufactures.

OHIO.

Table 1 shows the manufacturing and mechanical industries of the state of Ohio as returned at the censuses of 1850 to 1900, inclusive, with the percentages of increase for each decade. This table also presents the average number of wage-earners employed by manufacturing estab-

lishments, in comparison with the total population of the state, and the value of the land and buildings owned and reported by manufacturers as capital, in comparison with the assessed value of all real estate and improvements.

TABLE 1.—COMPARATIVE SUMMARY, 1850 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.						PER CENT OF INCREASE.				
	1900	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	32,398	28,673	20,699	22,773	11,123	10,622	13.0	38.5	19.1	104.7	4.7
Capital	\$605,792,266	\$402,798,019	\$188,939,614	\$141,923,964	\$57,295,303	\$29,619,538	50.4	113.2	88.1	147.7	97.4
Salaried officials, clerks, etc., number	30,003	238,566	(³)	(³)	(³)	(³)	122.2				
Salaries	\$29,351,045	\$30,321,084	(³)	(³)	(³)	(³)	13.2				
Wage-earners, average number	345,869	292,982	183,609	137,202	75,602	51,491	18.1	59.6	33.8	81.5	46.8
Total wages	\$158,955,330	\$128,447,799	\$62,103,800	\$49,066,488	\$22,302,989	\$13,467,156	19.9	106.8	26.6	120.0	65.6
Men, 16 years and over	287,789	244,900	152,217	119,686	65,749	47,054	17.5	60.9	27.2	82.0	39.7
Wages	\$140,364,129	\$118,158,916	(³)	(³)	(³)	(³)	18.8				
Women, 16 years and over	58,711	41,531	18,563	11,575	9,853	4,437	29.3	123.7	60.4	17.5	122.1
Wages	\$12,833,284	\$9,286,497	(³)	(³)	(³)	(³)	38.7				
Children, under 16 years	4,369	6,551	12,329	5,941	(³)	(³)	133.3	148.9	115.9		
Wages	\$707,917	\$1,002,386	(³)	(³)	(³)	(³)	129.4				
Miscellaneous expenses	\$69,728,206	\$45,062,325	(³)	(³)	(³)	(³)	54.7				
Cost of materials used	\$147,849,677	\$311,016,464	\$215,334,258	\$157,131,697	\$69,800,270	\$34,678,019	31.3	58.4	37.0	125.1	101.3
Value of products, including custom work and repairing	\$382,438,118	\$641,688,064	\$348,298,390	\$269,718,610	\$121,691,148	\$62,692,279	29.7	84.2	29.1	121.6	94.1
Total population	4,157,545	3,672,315	3,198,062	2,665,200	2,339,511	1,980,329	13.2	14.8	20.0	13.9	18.1
Wage-earners engaged in manufactures	345,869	292,982	183,609	137,202	75,602	51,491	18.1	59.6	33.8	81.5	46.8
Per cent of total population	8.3	8.0	5.7	5.1	3.2	2.6					
Assessed value of real estate	\$1,285,008,439	\$1,232,305,312	\$1,098,677,705	\$707,946,836	\$687,518,121	\$337,521,075	4.3	12.7	54.5	3.0	103.7
Value of land and buildings invested in manufactures ⁶	\$144,152,774	\$96,331,877	(³)	(³)	(³)	(³)	49.6				
Per cent of assessed value	11.2	7.8									

¹ Decrease.

² Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 7.)

³ Not reported separately.

⁴ Not reported.

⁵ As given in the report of the Secretary of State of Ohio, 1900, page 678.

⁶ Does not include value of rented property.

Table 1 shows that there has been a large growth in the manufacturing and mechanical industries of Ohio during the half century. The population during these years increased from 1,980,329 to 4,157,545, while the average number of wage-earners employed in manufacturing establishments increased from 51,491 to 345,869, embracing, in 1900, 8.3 per cent of the entire population, compared with 2.6 per cent in 1850. Probably the best indication of the importance of the wage-earning class is afforded by the greatest number employed at any one time during the year. In 1900 this was 451,686, or 10.9 per cent of the total population of the state. The greatest percentage of increase in the value of products, 121.6, is shown for the decade ending with 1870, but the greatest absolute increase, \$293,389,674, was between the years 1880 and 1890.

If the value of products given for 1870 is reduced to a gold basis, the absolute increase for each decade from 1850 to 1900, successively, is found to be \$58,998,869, \$94,079,740, \$132,527,502, \$293,389,674, and \$190,750,049. The increase was therefore greater at each successive decade except the last. At the censuses of 1840, 1850, 1860, and 1870 Ohio ranked fourth in the United States in the value of all manufactures. In 1880 the state became fifth, and has held that rank ever since.

Of the various causes which have contributed to the early development and steady advance of manufacturing in Ohio, the great commercial advantages of the state must be considered the most important. Water communication with the Atlantic seaboard is afforded by Lake Erie and the Erie Canal, and with the states of the northwest by the western Great Lakes and the Sault Ste. Marie Canal, while the Ohio River, which forms the southern boundary of the state for 436 miles, and its tributary, the Muskingum River, navigable for several miles above Zanesville, furnish cheap communication with western Pennsylvania and the entire Mississippi Valley. Two canals, connecting Lake Erie with the Ohio River, one from Cleveland to Portsmouth, and the other from Toledo to Cincinnati, were constructed by the state between the years 1825 and 1835. Settlements, trade, and local manufactures developed almost entirely along these waterways during the earlier years of the century. Other parts of the state were opened up by the construction of railroads, but the effect of these water routes in the localization of manufactures is still very marked, for in 1900 the great manufacturing centers of the state were located at the lake and river termini of the two principal canals, along these canals and their feeders north of Cincinnati and south and southeast of Cleve-

land, and along the Ohio River west and northwest of Wheeling.

During the first half of the century, owing to the existence of these water routes to the East, Ohio was the most accessible region west of the Allegheny Mountains, and was the first state, therefore, to feel the effect of westward emigration on a large scale. From 1820 to 1880 the population exceeded that of any other state west of the Allegheny Mountains. Many of the settlers came from New England, New York, and Pennsylvania, bringing with them the mechanical knowledge gained in their former homes. Machinery and tools were also brought from these older manufacturing sections, and industries for the supplying of local needs were started. Production for the broader market received its first great impetus when steam navigation began on the Ohio River, between the years 1810 and 1820. The rapid settlement of the Mississippi Valley developed a market which eastern manufacturers found difficult to enter in competition with the more favorably located establishments of Cincinnati. The rise of this city as a manufacturing center was remarkable. Coal brought down the Ohio River at small expense from Pennsylvania was most largely used. Pennsylvania furnished also crude forms of iron, and forests in the vicinity supplied abundant hard wood. In 1803 manufactured products were shipped to points along the Mississippi River as far south as New Orleans.¹

Cleveland was essentially a commercial city during the first half of the century, its prominence being due to its location on Lake Erie, and to the trade which passed through the Ohio Canal. By 1860 railroad construction had begun to deflect commerce to other centers, but the

¹The Journal of a Tour into the Territory Northwest of the Allegheny Mountains in the Year 1803, by T. M. Harris, page 146.

²The New England Magazine, 1896, page 760.

decline threatened at that time² was averted by the industrial development which followed the opening of the Sault Ste. Marie Canal, in 1855. Water communication was thus furnished with the richest mines of iron ore in the United States, and the iron industries of Cleveland and the Mahoning Valley began their great development.

Among the natural resources of Ohio are a fertile soil, extensive hard-wood forests, and an abundance of coal and natural gas. This last came largely into commercial use in the state in 1884.³ The production increased until 1889, but, on account of the exhaustion of many of the wells, has declined since that date. Ohio ranked fourth in 1899, however, in the value of natural gas produced, and considerable quantities were piped into the state from Pennsylvania, Indiana, West Virginia, Kentucky, and Canada. This fuel has been used at various times in Toledo, Findlay, Dayton, Springfield, Columbus, Zanesville, Newark, and many smaller places.⁴ During 1899 it was used in 691 different establishments in the state. Petroleum also was used as a fuel, though to a less extent. The waterpower of Ohio is not extensive, its use being confined very largely to flour and grist milling, lumber milling, and the manufacture of paper and wood pulp.

Table 2 divides the industries of the state between the hand trades and the manufactures proper. This table also gives the statistics for governmental establishments, educational, eleemosynary, and penal institutions, and establishments with a product of less than \$500; these were not reported at previous censuses, and therefore are omitted from the other tables and their use confined to Table 2.

³United States Geological Survey: Mineral Resources, 1899, Nonmetallic Products, except Coal and Coke, pages 299, 302, 309, and 310.

⁴Testimony of the Ohio State Geologist before the Cincinnati Board of City Affairs, 1899; quoted in the Progressive Age, June 15, 1899.

TABLE 2.—SUMMARY FOR ALL ESTABLISHMENTS.

CLASSES.	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	COST OF MATERIALS USED.				Value of products, including custom work and repairing.
				Average number.	Total wages.		Total.	Purchased in raw state.	Purchased in partially manufactured form.	Fuel, freight, etc.	
Total	39,524	\$608,410,892	44,125	849,172	\$154,194,618	\$69,867,179	\$448,574,587	\$109,646,052	\$309,842,856	\$29,085,679	\$834,834,666
Hand trades ¹	13,696	17,648,395	15,724	29,753	13,959,714	5,484,310	21,053,373	551,734	22,943,027	558,612	58,948,851
Governmental establishments	2	116,779	—	455	65,509	574	38,698	—	38,428	270	225,583
Educational, eleemosynary, and penal institutions	25	595,455	—	928	72,972	8,904	191,649	7,673	170,808	13,168	413,488
Establishments with a product of less than \$500.....	7,039	1,906,392	7,501	1,920	100,807	129,495	494,563	46,644	444,714	3,205	1,757,482
All other establishments	18,702	588,143,871	20,900	816,116	133,995,616	64,248,896	423,795,304	109,040,001	286,245,879	28,510,424	773,489,259

¹Includes bicycle and tricycle repairing, 377; blacksmithing and wheelwrighting, 3,585; boots and shoes, custom work and repairing, 1,461; carpentering, 1,135; clothing, men's, custom work and repairing, 1,543; clothing, women's, dressmaking, 767; dyeing and cleaning, 132; furniture, cabinetmaking, repairing, and upholstering, 303; lock and gun smithing, 105; masonry, brick and stone, 441; millinery, custom work, 1,231; painting, house, sign, etc., 887; paper hanging, 117; plastering and stuccowork, 207; plumbing, and gas and steam fitting, 612; sewing machine repairing, 20; taxidermy, 5; typewriter repairing, 2; watch, clock, and jewelry repairing, 736.

Of the 39,524 establishments of all classes shown in this table, 20,795, or 52.6 per cent, were small shops included in the groups of "hand trades" and "establishments with a product of less than \$500." The value of the products of these establishments, consisting principally of the sums received for custom work and repairing, amounted to

\$60,706,336, or only 7.3 per cent of the total value of the products of the state.

In addition to the 39,524 active establishments in the state during the census year, with a capital of \$608,410,892, shown in Table 2, there were 226 idle establishments, with a capital of \$4,638,185, divided as follows:

INDUSTRIES.	Number of idle estab- lishments.	Capital.	INDUSTRIES.	Number of idle estab- lishments.	Capital.
Boots and shoes, factory product	3	\$84,600	Lime and cement	4	\$18,580
Brick and tile	35	261,526	Liquors, distilled	4	30,875
Cars, steam railroad, not including operations of rail- road companies	1	8,000	Lumber and timber products	24	33,650
Cheese, butter, and condensed milk, factory product	11	24,150	Lumber, planing mill products, including sash, doors, and blinds	5	18,550
Cooperage	3	19,600	Oil, linseed	2	10,000
Flouring and grist mill products	26	156,975	Paints	1	20,000
Foundry and machine shop products	11	122,420	Paper and wood pulp	2	259,666
Furniture, factory product	3	303,022	Petroleum, refining	1	65,000
Glass	3	308,018	Pottery, terra cotta, and fire-clay products	14	332,052
Hosiery and knit goods	3	68,091	Saws	1	60,527
Iron and steel	3	1,072,700	Starch	1	400,000
Iron and steel, nails and spikes, cut and wrought, including wire nails	3	122,100	Wire	1	220,000
Leather, tanned, curried, and finished	3	14,450	Woolen goods	6	33,300
			All other industries	42	70,883

TABLE 3.—COMPARATIVE SUMMARY OF TWENTY-SEVEN LEADING INDUSTRIES.

INDUSTRIES.	Year.	Number of estab- lish- ments.	Capital.	WAGE-EARNERS.		Miscella- neous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Total for selected industries for state	1900	9,557	\$403,595,111	213,545	\$97,643,723	\$49,123,782	\$304,933,555	\$547,619,814
	1890	7,937	268,343,244	169,057	75,753,352	32,722,324	226,399,330	402,134,331
Increase, 1890 to 1900		1,560	135,251,867	44,488	21,885,371	16,400,958	78,542,975	145,484,923
Per cent of increase		19.5	50.4	26.3	28.9	50.1	34.7	36.2
Per cent of total of all industries in state	1900	29.5	66.6	61.7	63.4	70.4	68.1	65.8
	1890	27.9	66.6	57.7	59.0	72.6	66.4	62.7
Agricultural implements	1900	78	23,628,442	6,852	3,271,163	1,483,605	6,059,515	13,975,263
	1890	106	29,399,930	7,701	3,368,475	2,008,481	5,654,360	14,333,253
Boots and shoes, factory product	1900	31	7,549,142	12,718	3,939,744	637,537	11,074,008	17,920,854
	1890	63	3,176,318	5,743	2,303,393	257,369	4,480,206	8,489,728
Carriage and wagon materials	1900	109	5,251,795	4,529	1,730,022	347,458	4,027,295	7,186,271
	1890	99	3,350,304	2,697	1,115,332	215,794	1,745,062	4,310,607
Carriages and wagons	1900	543	12,158,302	7,274	3,339,550	813,400	3,262,052	15,919,173
	1890	709	13,952,571	9,493	4,509,900	1,060,056	9,432,677	13,777,866
Cars and general shop construction and repairs by steam railroad companies.	1900	91	5,701,129	11,534	6,087,052	391,581	5,963,808	12,975,132
	1890	64	3,907,278	7,397	3,968,797		3,096,052	8,096,905
Clothing, men's, factory product	1900	539	10,732,010	6,521	2,143,619	2,044,440	9,112,231	16,598,324
	1890	508	13,106,296	15,210	3,567,733	1,034,007	9,936,196	20,604,134
Clothing, women's, factory product	1900	126	2,865,851	4,817	1,518,355	467,183	4,449,451	7,772,771
	1890	31	2,056,455	2,546	911,171	119,790	2,282,025	4,352,098
Coffee and spice, roasting and grinding	1900	26	2,375,833	678	229,703	128,733	4,708,855	5,849,644
	1890	32	1,417,723	438	211,233	77,913	6,540,452	7,806,763
Electrical apparatus and supplies	1900	64	7,036,103	3,773	1,502,270	563,201	3,333,978	6,504,847
	1890	11	694,255	848	212,262	38,526	144,354	604,730
Flouring and grist mill products	1900	1,150	12,531,150	2,433	1,220,393	626,642	31,326,750	37,390,307
	1890	910	13,472,455	3,311	1,339,707	908,517	33,413,856	39,468,409
Food preparations	1900	31	5,185,405	1,100	365,950	390,651	5,353,560	7,166,532
	1890	35	384,145	270	76,403	33,945	613,134	1,029,842
Foundry and machine shop products	1900	361	68,766,347	41,799	20,568,263	4,806,632	31,573,934	72,399,632
	1890	600	32,539,793	24,795	13,050,969	2,633,733	19,332,307	43,617,072
Furniture, factory product	1900	165	9,535,343	6,723	2,621,895	562,295	4,042,033	9,514,764
	1890	215	3,144,977	7,078	3,122,307	566,903	3,750,742	9,933,129
Glass	1900	28	5,451,513	4,546	2,067,334	155,512	1,253,164	4,547,033
	1890	59	4,094,677	6,435	2,901,255	294,744	1,602,599	5,649,132
Iron and steel	1900	107	85,623,652	33,677	19,730,469	4,400,859	91,329,307	133,935,256
	1890	101	36,173,337	23,546	13,262,141	2,293,033	44,551,301	65,203,323
Leather, tanned, curried, and finished	1900	53	5,322,530	1,334	617,409	160,315	3,774,293	5,132,065
	1890	113	4,330,015	1,447	703,332	193,210	5,134,243	6,701,670
Liquors:								
Total	1900	190	31,444,509	3,973	2,539,972	17,796,541	6,145,193	31,771,591
	1890	179	21,591,010	3,666	2,490,340	12,642,274	8,054,366	23,484,290
Liquors, distilled	1900	26	3,000,277	335	179,157	9,622,533	1,433,507	12,447,263
	1890	15	2,109,879	426	224,222	3,745,103	2,635,016	12,033,334
Liquors, malt	1900	112	26,322,396	3,464	2,292,652	3,104,240	4,277,812	13,522,639
	1890	106	21,491,924	3,117	2,224,351	3,326,311	5,272,394	15,399,629
Liquors, vinous	1900	52	1,621,336	179	63,163	69,718	428,879	301,634
	1890	53	939,207	123	41,767	70,355	246,936	550,777
Lumber and timber products	1900	2,054	13,741,413	3,339	3,293,663	503,562	11,296,045	20,790,354
	1890	1,461	11,306,709	11,727	3,143,494	636,950	7,621,133	15,279,343
Lumber, planing mill products, including sash, doors, and blinds	1900	351	7,493,314	4,696	2,169,264	463,543	6,549,643	11,066,671
	1890	335	7,903,742	5,356	2,733,047	426,367	7,635,133	12,910,333

TABLE 3.—COMPARATIVE SUMMARY OF TWENTY-SEVEN LEADING INDUSTRIES—Continued.

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Paper and wood pulp	1900	51	\$7,872,913	3,134	\$4,118,040	\$479,386	\$3,768,572	\$6,543,513
	1890	50	7,581,538	2,921	1,153,625	513,037	3,991,377	7,209,750
Petroleum, refining	1900	9	10,912,818	1,008	551,692	620,061	6,177,048	8,396,977
	1890	15	15,871,138	1,976	1,017,861	690,858	12,517,255	16,343,498
Pottery, terra cotta, and fire-clay products	1900	248	15,563,969	11,870	5,000,846	691,591	3,229,385	11,851,225
	1890	125	5,927,189	4,606	2,055,702	459,333	1,313,280	5,047,601
Printing and publishing:								
Total	1900	1,253	17,851,109	11,021	5,313,707	2,691,846	5,656,367	20,391,868
	1890	987	11,634,222	9,026	4,436,561	2,095,620	5,244,793	17,183,851
Book and job	1900	410	6,330,456	4,613	2,171,241	823,070	2,749,600	7,941,570
	1890	257	3,704,513	3,018	1,392,017	337,296	2,818,018	6,086,891
Music	1900	6	192,788	48	22,870	185,009	23,761	260,658
	1890	6	191,620	17	7,954	76,650	21,968	173,450
Newspapers and periodicals	1900	837	11,327,865	6,360	3,119,596	1,733,296	2,838,006	12,189,640
	1890	724	7,733,089	5,991	3,036,590	1,681,680	2,404,807	10,923,510
Rubber and elastic goods	1900	19	5,989,129	3,505	1,281,038	305,446	4,757,204	7,330,104
	1890	7	1,162,612	658	240,736	89,504	1,002,772	1,488,777
Slaughtering:								
Total	1900	71	5,355,623	1,765	811,398	639,008	17,929,953	20,660,780
	1890	138	3,582,540	1,346	682,581	234,983	14,341,520	17,012,198
Slaughtering and meat packing, wholesale	1900	60	5,224,425	1,700	775,288	619,623	17,006,794	19,609,304
	1890	70	3,100,226	1,168	591,898	193,933	11,269,900	13,280,649
Slaughtering, wholesale, not including meat packing	1900	11	131,400	65	36,110	19,380	921,159	1,051,476
	1890	68	482,115	173	90,683	41,050	3,071,620	3,731,549
Soap and candles	1900	55	7,655,594	1,427	572,301	1,182,185	5,049,219	8,150,069
	1890	49	2,404,544	1,013	360,339	183,138	4,081,984	5,746,660
Tobacco:								
Total	1900	1,196	9,539,705	12,189	3,958,546	5,755,984	8,222,627	20,332,629
	1890	995	5,572,563	8,259	2,764,001	3,104,643	7,987,891	16,387,719
Chewing, smoking, and snuff	1900	19	2,081,858	1,087	389,881	3,001,133	1,917,219	5,752,853
	1890	20	2,105,848	1,870	549,110	1,936,909	2,925,371	5,991,177
Cigars and cigarettes	1900	1,129	4,579,159	9,046	3,016,072	2,613,678	3,717,825	11,239,324
	1890	987	2,729,275	5,632	1,973,389	1,131,702	2,447,042	7,024,748
Stemming and rehandling	1900	48	2,873,688	2,056	562,593	141,173	2,587,583	3,839,952
	1890	38	737,440	707	241,502	36,032	2,615,478	3,871,794

The 27 leading industries of the state in 1900, as shown in Table 3, embraced 9,557 establishments, or 29.5 per cent of the total number in the state; used a capital of \$403,595,111, or 66.6 per cent of the total; gave employment to 213,545 wage-earners, or 61.7 per cent of the total number; and paid \$97,643,723, or 63.4 per cent of the total wages. The value of their products was \$547,619,814, or 65.8 per cent of the total. In the discussion of Table 3, which follows, these industries are ranked with reference to the value of their products.

Table 3 shows that the manufacture of iron and steel is the most important industry in the state. The 107 establishments reported in 1900 gave employment to 33,677 wage-earners, or 9.7 per cent of the wage-earners employed in the state, and the products were valued at \$138,935,256, or 16.7 per cent of the total value of the products of the state. In 1890 there were 101 establishments, 23,546 wage-earners, and products valued at \$65,206,828. The increase in the value of products during the decade was \$73,728,428, or 113.1 per cent.

In the manufacture of iron and steel, Ohio has always led all states west of the Allegheny Mountains. It ranked next to New York and Pennsylvania in 1850, and since 1870 has held the second place, ranking next to Pennsylvania. There were 43 blast furnaces in operation in 1900, with products valued at \$40,366,637, and 64 rolling mills

and steel works, with products valued at \$98,568,619. The iron ore production of Ohio in 1899 was comparatively small, amounting to 53,221 long tons,¹ or but 1.2 per cent of the iron ore used in the furnaces of the state during the census year. The coal production, on the contrary, was large, amounting to 16,500,270 short tons.² But as only a small amount of the coal mined in the state is made into coke,³ the blast furnaces are supplied with their most important fuel chiefly by Pennsylvania and West Virginia. Natural gas is used in a few of the rolling mills and steel works.

The manufacture of iron and steel in 1900 was carried on chiefly in the eastern and northeastern parts of the state—Youngstown, Cleveland, Lorain, Bellaire, Mingo Junction, Niles, Steubenville, and Canal Dover turning out products valued at \$88,731,725, or 63.9 per cent of the total for the state. Columbus, in the central part of the state, and Ironton, in the southern part, are also important centers. Furnaces in these districts use some local coal, and in some cases use local ores entirely. In general, however, the localization of the industry shows little relation to the deposits of iron and coal in Ohio, being rather a result of the accessibility of the eastern and northeastern parts of

¹ United States Geological Survey: Mineral Resources, 1899, Metallic Products, Coal, and Coke, page 34.

² Ibid., page 479.

³ Ibid., page 533.

the state to the Connellsville, Pa., and West Virginia coke, and to the Lake Superior iron ore. None of the principal consuming points in other states, except Pittsburg and the Shenango Valley in Pennsylvania, receive Connellsville coke so cheaply,¹ and none of the eastern iron centers are as favorably located in relation to the Lake Superior mines. In the early years of the century, the industry was dependent chiefly upon local deposits of bog and other iron ores, and upon the supply of wood for the manufacture of charcoal. The first furnace in Ohio was established in 1804 on Yellow Creek, in the Mahoning Valley, near Youngstown, which in 1900 was the leading city in the state in the iron and steel industry.² On the Lake Erie shore the industry probably dates from 1825, when a furnace was operated in the present county of Lake, east of Cleveland. Furnaces multiplied rapidly in this section during the next twelve years, but declined with the exhaustion of the forests which supplied the charcoal used as fuel. In those early years the most important center for the industry was the celebrated Hanging Rock district, in the south central part of the state, bordering upon the Ohio River. In 1832 a furnace, located in this district, shipped pig iron to New York by way of New Orleans "at a fair profit," and had exported a small amount on order to England.³ Of the 35,236 tons of iron produced in the state in 1840, 20,574 tons were from the furnaces of Lawrence county, in this district. The first furnace in Ohio to use bituminous coal was built expressly for the purpose in Mahoning county, in 1846, and from that time coal furnaces increased rapidly. At a later date coke became the principal fuel. The state exempted from payment of toll on the canals all fuel to be used in iron works.⁴

Closely allied to the iron and steel manufacture is the manufacture of tin and terne plate, in which industry Ohio ranked third in 1900. There were 12 establishments in operation having products valued at \$6,023,314. This manufacture was not shown separately in 1890, and for this reason its statistics for 1900 are shown only in Table 7.

The manufacture of foundry and machine shop products ranked second among the industries of the state in 1900, with 861 establishments, 41,799 wage-earners, and products valued at \$72,399,632. In 1890 there were 600 establishments, 24,795 wage-earners, and products valued at \$43,617,072. The increase in the value of products during the decade was \$28,782,560, or 66 per cent. These products included engines, boilers, and machinery of many varieties. The industry is carried on extensively in all the leading cities of the state, but Cleveland and Cincinnati, in the order named, are the most important centers. In 1900 Ohio led all other states in the manufacture of metal-working machinery, and ranked third in the manufac-

ture of pumping machinery. The manufacture of machine tools and wood-working machinery is made a specialty at Cincinnati; mining machines are made at Akron and Columbus, and machine tools at Hamilton. Machinery, stoves, and machine tools are exported.⁵ The manufacture of foundry and machine shop products has always been one of the most important in the state, ranking second in 1850 as well as in 1900. In the early years of the century it was confined very largely to the city of Cincinnati, being favored in that locality by cheap water communication with the coal fields of Pennsylvania, West Virginia, and southern Ohio, and by the facilities for receiving pig and other crude iron from the Pittsburg district. The states of the Mississippi Valley have always constituted the principal market for Ohio machinery. A shop for the manufacture of cotton and woolen machinery was built at Cincinnati in 1809.⁶ Steam navigation on the Ohio and Mississippi rivers created a demand for steamboats and steam engines, which was the chief cause of the great prosperity this city enjoyed between the years 1820 and 1832. In 1835 its foundries and machine shops manufactured 100 steam engines, 240 cotton gins, 20 sugar mills, and 22 boilers.⁷ Between 1831 and 1841, 1,500 plantation cotton-spinning machines were sent to the South from a single machine shop at Cincinnati.⁸ In 1851 there were 44 foundries and machine shops in that city. One-third of these manufactured stoves almost exclusively, as many as 1,000 stoves being produced in a single day.⁹ The first steam fire engines put into regular service in the United States were built at Cincinnati in 1853.¹⁰

There were 1,150 establishments engaged in 1900 in the manufacture of flouring and grist mill products, the industry third in rank, with 2,438 wage-earners, and products valued at \$37,390,367. In 1890 there were 910 establishments, 3,311 wage-earners, and products valued at \$39,468,409. The decrease in the value of products during the decade was \$2,078,042, or 5.3 per cent. Ohio ranked third in the United States in this industry in 1900. The most important of the products was wheat flour, valued at \$26,060,827. The mills were widely scattered over the state, the greatest value of products being shown for Lucas county, which includes the city of Toledo. Ohio is the easternmost state in the corn belt. It produced 99,048,816 bushels of corn in 1899, and 39,998,006 bushels of wheat, ranking seventh in the former and third in the latter.¹¹ Flour and grist milling is one of the oldest industries in Ohio, flour having been sent to New Orleans as early as 1803.¹² In 1814 a nine-storied steam flour mill, famous in its day, was built at Cincinnati. In 1815

¹ Treasury Department: Monthly Summary of Commerce and Finance for January, 1901, page 1699.

² Tenth Census of the United States, Manufactures, folio 338 ff.

³ Documents Relative to Manufactures in the United States in 1832, Twenty-second Congress, first session, Executive Document No. 308, part 2, pages 861 and 866.

⁴ Hunt's Merchants' Magazine, vol. 25, page 126.

⁵ Report of the Cincinnati Chamber of Commerce, 1900, page 107.

⁶ A Picture of Cincinnati, 1815, by Daniel Drake, page 143.

⁷ Western Monthly Magazine, January, 1836, page 27.

⁸ Cincinnati in 1841, by Charles Cist, page 250.

⁹ Cincinnati in 1851, by Charles Cist, page 192.

¹⁰ One Hundred Years of American Commerce, Vol. II, page 345.

¹¹ Yearbook of the Department of Agriculture, 1899, pages 765 and 766.

¹² The Journal of a Tour, supra cit., page 146.

large quantities of Indian meal were exported to the West Indies.¹ In 1817 the first warehouse in Toledo for the receipt of grain was built, and in 1838 grain supplies began to reach that city from southern Michigan. In the same year a crude horsepower corn elevator was built, the first, it is claimed, to be constructed in the West.² The completion of the Wabash Canal in 1851, and of the Toledo, Wabash, and Western Railroad in 1856, diverted to Toledo the greater part of the traffic of central Indiana and Illinois, at that time the most productive region of the West.³ In 1899 Toledo stood sixth in rank in grain receipts, and fourth in rank in corn receipts, among the primary grain markets of the United States.⁴

There were 190 establishments engaged in the manufacture of liquors in 1900, with 3,978 wage-earners, and products valued at \$31,771,591. In 1890 there were 179 establishments, 3,666 wage-earners, and products valued at \$28,484,290. The increase in the value of products during the decade was \$3,287,301, or 11.5 per cent. These products included, in 1900, malt liquors valued at \$18,522,639, distilled liquors valued at \$12,447,268, and vinous liquors valued at \$801,684.

The relative importance of the production of malt and distilled liquors has been reversed during the last half century. In 1850 the production of distilled liquors was valued at \$3,040,604, and the production of malt liquors at only \$528,998. The distribution of the malt liquor industry in 1900 corresponded approximately to the distribution of population. The distillation of liquors in the state has always been greatest at Cincinnati, where it is favored by the large corn production of Ohio, Kentucky, and Indiana. Ohio ranked third in this industry in 1900, the distilled liquors produced in Cincinnati being valued at \$9,419,687, or 75.7 per cent of the total for the state. The industry was carried on in Ohio at least as early as 1803, when whiskey was sent from Cincinnati to New Orleans.⁵ At the census of 1810, distilleries were reported in each of the 36 counties of the state, producing in all, 1,212,266 gallons of whiskey. Several of the largest distilleries in the world are located at Cincinnati, and some of the whiskey produced is exported.⁶

The cultivation of Catawba grapes and the manufacture of wine were begun in the Ohio Valley about the year 1825.⁷ In 1851 there were 40 manufacturers of wine in the city of Cincinnati. About the year 1858 the climate of southern Ohio became unfavorable to the culture of grapes, and grape growing and wine manufacturing have localized recently in the counties along the shore of Lake Erie, the most important centers being near Kelleys and

Put In Bay islands, where there are 6,000 acres of vineyards. In 1900 Ohio ranked third in the United States in this branch of the industry.

There were 1,196 establishments engaged in the manufacture of tobacco in 1900, with 12,189 wage-earners, and products valued at \$20,832,629. In 1890 there were 995 establishments, 8,259 wage-earners, and products valued at \$16,387,719. The increase in the value of products during the decade was \$4,444,910, or 27.1 per cent. In 1900 the products included chewing and smoking tobacco and snuff, valued at \$5,752,853; cigars and cigarettes, valued at \$11,239,824; and stemmed and rehandled tobacco, valued at \$3,839,952. The manufacture is carried on most largely at Cincinnati. The southwestern part of Ohio and the north central part of Kentucky, immediately opposite, constitute one of the largest tobacco-growing regions in the United States. Tobacco manufacturing was probably carried on in Ohio before the year 1810, a tobacconist having reported in 1832 that he had been manufacturing at Cincinnati by steam power for five years, and by horsepower for twenty years previously.⁸

There were 2,054 establishments engaged in the manufacture of lumber and timber products in 1900, with 8,539 wage-earners, and products valued at \$20,790,854. In 1890 there were 1,461 establishments, 11,727 wage-earners, and products valued at \$15,279,843. The increase in the value of products during the decade was \$5,511,011, or 36.1 per cent. The characteristic product of the Ohio mills is hard-wood lumber, more than half of which consists of white oak. The small quantities of white and Norway pine lumber manufactured in the state were reported from points along the Lake Erie shore, particularly from Cleveland and Toledo. Cincinnati was the point of greatest production in the state during the census year, the 6 mills reported turning out products, consisting mainly of oak and poplar lumber and veneers, valued at \$2,044,650. The total quantity of lumber sawed in the state during the census year was 990,497,000 feet, board measure. The industry was naturally one of the earliest in the history of the state, and its growth has been steady during the half century. Lumber and staves were sent to New Orleans as early as 1803,⁹ and in 1815 a steam saw-mill was in operation at Cincinnati.¹⁰

There were 71 establishments engaged in slaughtering and meat packing in 1900, with 1,765 wage-earners, and products valued at \$20,660,780. In 1890 there were 138 establishments, 1,346 wage-earners, and products valued at \$17,012,198. The increase in the value of products during the decade was \$3,648,582, or 21.4 per cent. Cincinnati has always been the chief center of this industry. In 1900 the production of this city was valued at \$10,370,177, or 50.2 per cent of the total for the state, Cleveland ranking second, with products valued at \$7,514,470. The earliest packing houses were flat boats on the Ohio River,

¹ A Picture of Cincinnati, 1815, pages 137 and 148.

² History of the City of Toledo, and Lucas County, Ohio, by Clark Waggoner, pages 464 and 466.

³ History of the Maumee Valley, by H. S. Knapp, pages 623 and 624.

⁴ Treasury Department: Monthly Summary of Commerce and Finance for January, 1901, page 1642.

⁵ The Journal of a Tour, supra cit., page 146.

⁶ Report of the Cincinnati Chamber of Commerce, 1900, page 107.

⁷ Ohio, by Rufus King, pages 415 to 417.

⁸ Documents Relative to Manufactures, supra cit., page 870.

⁹ History of Cincinnati, compiled by Henry A. Ford and Mrs. Kate B. Ford, page 325.

and in 1803 beef and pork were shipped from Cincinnati to New Orleans.¹ The pioneer establishment of the western packing industry, as now understood, was founded at Cincinnati in 1818, by Elisha Mills.² In 1833, 85,000 hogs were packed for the market, and in 1851 the number had increased to 324,529. Between 1842 and 1852 Cincinnati packed 27 per cent of the hogs packed in the United States, and was the first city to receive the sobriquet of Porkopolis on this account. Its preeminence was due to its shipping facilities and to its location close to the junction of Ohio, Kentucky, and Indiana, the three largest hog-raising states in the United States at that time.³ Since 1861 the center of corn production has moved westward, and Chicago, Kansas City, and Omaha have taken from Cincinnati its early precedence in this industry. Prior to 1872 meat packing in Cincinnati was confined to the winter months. In that year, by means of artificial refrigeration, summer packing was made possible, and the inevitable decline in the industry at Cincinnati was delayed until 1879.

Closely allied to slaughtering and meat packing is the manufacture of soap and candles. There were 55 establishments engaged in this manufacture in 1900, with 1,427 wage-earners, and products valued at \$8,150,069. In 1890 there were 49 establishments, 1,013 wage-earners, and products valued at \$5,746,660. The increase in the value of products during the decade was \$2,403,409, or 41.8 per cent. Over 2,500,000 pounds of candles and over 15,000,000 pounds of soap were made at Cincinnati in 1851.⁴

There were 1,253 establishments engaged in printing and publishing in 1900, with 11,021 wage-earners, and products valued at \$20,391,868. In 1890 there were 987 establishments, 9,026 wage-earners, and products valued at \$17,188,851. The increase in the value of products during the decade was \$3,203,017, or 18.6 per cent. These products included the printing and publishing of newspapers and periodicals, valued at \$12,189,640; book and job printing, valued at \$7,941,570; and the printing and publishing of music, valued at \$260,658. This industry is centered largely in the city of Cincinnati, which has for a long time taken high rank in the publishing of school books and music. A newspaper was published at Cincinnati as early as 1793.⁵

There were 81 establishments engaged in the factory manufacture of boots and shoes in 1900, with 12,718 wage-earners, and products valued at \$17,920,854. In 1890 there were 63 establishments, 5,743 wage-earners, and products valued at \$8,489,728. The increase in the value of products during the decade was \$9,431,126, or 111.1 per cent. These products included women's shoes valued at \$12,096,860, and misses' and children's shoes valued at

\$3,272,732. Ohio has always been the largest boot and shoe manufacturing state west of the Allegheny Mountains, ranking fourth in this industry in 1900. In 1851 there were 5 shoe factories in Cincinnati,⁶ and in 1900 this city ranked third in the United States in the manufacture of women's and children's shoes. Columbus and Portsmouth were also important centers. The industry is favored by the large western market and by the local production of leather.

There were 539 establishments engaged in the factory manufacture of men's clothing in 1900, with 6,521 wage-earners, and products valued at \$16,593,824. In 1890 there were 508 establishments, 15,210 wage-earners, and products valued at \$20,604,134. The decrease in the value of products during the decade was \$4,010,310, or 19.5 per cent. Allied to this industry is the factory manufacture of women's clothing, with 126 establishments in 1900, 4,817 wage-earners, and products valued at \$7,772,771. In 1890 there were 31 establishments, 2,546 wage-earners, and products valued at \$4,352,098. The increase in the value of products during the decade was \$3,420,673, or 78.6 per cent. The greater part of the clothing manufacture of Ohio has always been carried on in Cincinnati. In 1832 a tailor in that city employed 6 men and 8 women, and had begun to make clothing for the outside market.⁷ The factory manufacture of men's clothing advanced rapidly until 1880; there was only a slight gain during the next decade, and a decline between 1890 and 1900. In addition to the 813 wage-earners employed in the shops of Cincinnati in 1841, nearly 4,000 women were engaged in this industry at their homes.⁸ The products of these factories found a market in all the states of the South and West. In 1894 much of the manufacturing was still carried on at the homes of the workers in Cincinnati and the neighboring towns, and in the cities of Covington and Newport in Kentucky.⁹ The factory manufacture of women's clothing has developed recently, alongside the factory manufacture of men's clothing, and its advance has been continuous. In 1900 the value of products in Cleveland was \$4,213,248, compared with \$2,074,805 in Cincinnati.

There were 543 establishments engaged in the manufacture of carriages and wagons in 1900, with 7,274 wage-earners, and products valued at \$15,919,173. In 1890 there were 709 establishments, 9,493 wage-earners, and products valued at \$18,777,866. The decrease in the value of products during the decade was \$2,858,693, or 15.2 per cent. These products included family and pleasure carriages valued at \$11,271,303, business and farm wagons valued at \$2,576,867, and automobiles and other horseless conveyances valued at \$147,000. Ohio ranked first in this industry in 1900.

Closely allied to the manufacture of carriages and wagons

¹The Journal of a Tour, supra cit., page 146.

²Philip D. Armour, in One Hundred Years of American Commerce, Vol. II, page 383 ff.

³Hunt's Merchants' Magazine, vol. 25, page 432.

⁴Cincinnati in 1851, page 235.

⁵Tenth Census of the United States, Vol. VIII, The Newspaper and Periodical Press, page 314.

⁶Cincinnati in 1851, page 176.

⁷Documents Relative to Manufactures, supra cit., page 870.

⁸Cincinnati in 1841, page 57.

⁹Report of the Ohio Bureau of Labor Statistics, 1894, page 57 ff.

is the manufacture of carriage and wagon materials. There were 109 establishments engaged in this industry in 1900, with 4,529 wage-earners, and products valued at \$7,186,271. In 1890 there were 99 establishments, 2,697 wage-earners, and products valued at \$4,310,607. The increase in the value of products during the decade was \$2,875,664, or 66.7 per cent. These products included carriage and wagon bodies, wheels, spokes, and other parts. These two branches of the industry were carried on most extensively at Cincinnati and Columbus, lighter vehicles being made a specialty. Their importance is due in a large measure to the abundance of hard-wood timber and leather. Carriage manufacturing was one of the early industries of Cincinnati. It is recorded that the first steel-spring gig ever seen in that city was manufactured there in 1825.¹ In 1851, 24 factories were in operation in Cincinnati.²

There were 78 establishments engaged in the manufacture of agricultural implements in 1900, with 6,852 wage-earners, and products valued at \$13,975,268. In 1890 there were 106 establishments, 7,701 wage-earners, and products valued at \$14,333,258. The decrease in the value of products during the decade was \$357,990, or 2.5 per cent. Ohio ranked first in this industry in 1880, and second in 1890 and 1900. Plow making was carried on in a crude manner in Cincinnati as early as 1813,¹ and in 1832 an establishment in Columbus manufactured 1,500 plows per annum.³ The preeminence of the state in agriculture created an extensive market in the middle of the century, while the forests of hard wood and the local or nearby manufactures of iron furnished abundant supplies of the chief materials. What has grown to be one of the largest factories of its kind in the United States was established at Springfield in 1854. Important centers in 1900 were Springfield, Dayton, Canton, and Akron. Each year whole train loads of these products leave Springfield for the West and Northwest, and for Eastern ports to be shipped to Russia, Australia, and other grain-growing countries.

There were 91 establishments engaged in car construction and general shop work of steam railroad companies in 1900, with 11,534 wage-earners, and products valued at \$12,975,182. In 1890 there were 64 establishments, 7,397 wage-earners, and products valued at \$8,096,905. The increase in the value of products during the decade was \$4,878,277, or 60.2 per cent. The industry is centered in the cities of Columbus, Cleveland, Dennison, and Toledo. In addition to repairing, which constituted the greater part of the work of these establishments, 9 passenger cars and 1,334 freight cars were built during the census year.

There were 248 establishments engaged in the manufacture of pottery, terra cotta, and fire-clay products in 1900, with 11,870 wage-earners, and products valued at \$11,851,225. In 1890 there were 125 establishments, 4,606 wage-earners, and products valued at \$5,047,501. The increase in the value of products during the decade

was \$6,803,724, or 134.8 per cent. The pottery products were valued at \$6,994,805, and the terra cotta, fire and other clay products at \$4,843,615. Ohio rose from second to first rank in this industry between 1890 and 1900. In the latter year the total value of its pottery, terra cotta, and fire-clay products constituted 26.8 per cent of the total for the United States. The rank of Ohio in this industry is due very largely to the development of its extensive deposits of suitable clays.⁴ The value of special technical training in this line is appreciated, and a department of ceramics was established in the State University at Columbus in 1894.⁵

The manufacture of white ware, the most important of the several branches of the industry, is carried on chiefly in the city of East Liverpool, on the Ohio River, in the eastern part of the state. This city is unique in the United States in that its industrial activity is confined almost entirely to the manufacture of pottery. Of the 4,473 wage-earners employed in all industries in this city in 1900, 3,908, or 87.4 per cent, were employed in the pottery manufacture. The manufacture of yellow ware has been carried on at this point since 1839, but the manufacture of white ware, begun in 1872, has become the more important branch of the industry. In 1900 the white granite ware and semivitreous porcelain manufactured in East Liverpool were valued at \$2,808,445, or 49.1 per cent of the total for the United States. The manufacture of white ware does not have the advantages of suitable clays near at hand, the kaolin and other fine clays used for the manufacture of china and porcelain being brought from a considerable distance. The remarkable development of the manufacture in East Liverpool, between 1872 and 1892, was due chiefly to the supply of specially skilled labor which had been attracted to that point from English pottery centers, in order to engage in the manufacture of coarser wares.

Zanesville, Roseville, and Akron have always been important centers for the manufacture of yellow and earthen ware, the industry in the early years of the century being carried on chiefly by farmers, who made use of the clays found in abundance on their lands. Products were sent down the Muskingum to markets on the Ohio River, and even to New Orleans. In recent years, however, the farmer-potter has been driven from the field by the concentration which has followed the introduction of improved machinery. Art tiling is manufactured extensively at Zanesville, and since 1880 Cincinnati has been an important center for the manufacture of art pottery. Ohio manufactures more than one-third of the sewer pipe made in the United States. There are large factories at and near Akron, and for many miles along the Ohio River. The manufacture was begun in the state in 1848, and considerable quantities of pipe are exported.

Allied to the manufacture of pottery is the manufacture of brick and tile, the statistics of which are shown in

¹ History of Cincinnati, page 324.

² Cincinnati in 1851, page 183.

³ Documents Relative to Manufactures, supra cit., page 862.

⁴ Report of the Geological Survey of Ohio, Vol. V, page 643 ff.

⁵ Report of the Ohio Bureau of Labor Statistics, 1895, page 9 ff.

Table 7. The products for the year 1900 were valued at \$4,629,587. This industry is carried on in Ohio, not chiefly for the supply of local building needs, as in most other states, but for the general market. Vitrified paving brick is made in large quantities at Zanesville and Canton and sent into many other states. Pressed brick is also an important product in Zanesville. The first pressed brick manufactured west of the Ohio River was made in that city in 1861.

There were 354 establishments engaged in the manufacture of planing mill products in 1900, with 4,696 wage-earners, and products valued at \$11,066,671. In 1890 there were 335 establishments, 5,356 wage-earners, and products valued at \$12,910,538. The decrease in the value of products during the decade was \$1,843,867, or 14.3 per cent.

There were 165 establishments engaged in the factory manufacture of furniture in 1900, with 6,723 wage-earners, and products valued at \$9,514,764. In 1890 there were 215 establishments, 7,076 wage-earners, and products valued at \$9,988,129. The decrease in the value of products during the decade was \$473,365, or 4.7 per cent. This industry began at an early date in Ohio, the manufacture of desks, escritaires, and veneered tables being advertised in a local newspaper in 1800, and in 1815 mahogany was brought from Central America to be manufactured into tables, chairs, and bureaus at Cincinnati.¹ The manufacture was carried on largely during the census year at Cincinnati and Cleveland. The first-named city is an important market for the hard-wood lumber of Kentucky, Tennessee, and West Virginia, and the furniture manufactured is shipped throughout the middle West, and exported.²

There were 9 establishments engaged in the refining of petroleum in 1900, with 1,008 wage-earners, and products valued at \$8,396,977. In 1890 there were 15 establishments, 1,976 wage-earners, and products valued at \$16,343,493. The decrease in the value of products during the decade was \$7,946,516, or 48.6 per cent. In 1899 the wells of Ohio produced more petroleum than those of any other state, the greater part of which was shipped, or piped, to refineries in other states.³ In 1900 Ohio ranked fifth in the refining industry, Lima, Cleveland, and Toledo being the principal centers.

There were 19 establishments engaged in the manufacture of rubber and elastic goods in 1900, with 3,505 wage-earners, and products valued at \$7,330,104. In 1890 there were 7 establishments, 658 wage-earners, and products valued at \$1,486,777. The increase in the value of products during the decade was \$5,843,327, or 393 per cent. Rubber and elastic goods valued at \$5,524,674, or 75.4 per cent of the total for the state, were reported for Akron,

this city being one of the most important centers of the industry in the United States.

There were 31 establishments engaged in the manufacture of food preparations in 1900, with 1,100 wage-earners, and products valued at \$7,166,532. In 1890 there were 35 establishments, 270 wage-earners, and products valued at \$1,029,842. The increase in the value of products during the decade was \$6,136,690, or 595.9 per cent.

There were 51 establishments engaged in the manufacture of paper and wood pulp in 1900, with 3,184 wage-earners, and products valued at \$6,543,513. In 1890 there were 50 establishments, 2,921 wage-earners, and products valued at \$7,209,750. The decrease in the value of products during the decade was \$666,237, or 9.2 per cent. These products included manila paper valued at \$1,368,700, book paper valued at \$942,642, and straw-board valued at \$800,038. The industry is carried on largely in Butler, Montgomery, and Warren counties. The first mill in Ohio was built in 1805 on Little Beaver Creek, in the eastern part of the state,⁴ and in 1832 there were 8 paper factories in operation at and above Cincinnati, for the supply of the book and news printing industry of that city.⁵

There were 64 establishments engaged in the manufacture of electrical apparatus and supplies in 1900, with 3,773 wage-earners, and products valued at \$6,504,847. In 1890 there were 11 establishments, 348 wage-earners, and products valued at \$604,780. The increase in the value of products during the decade was \$5,900,067, or 975.6 per cent. One of the largest plants in the world for the manufacture of carbon points for arc lights is located at Cleveland.⁶

There were 26 establishments engaged in the roasting and grinding of coffee and spice in 1900, with 678 wage-earners, and products valued at \$5,849,644. In 1890 there were 32 establishments, 488 wage-earners, and products valued at \$7,806,763. The decrease in the value of products during the decade was \$1,957,119, or 25.1 per cent.

There were 58 establishments engaged in the tanning, currying, and finishing of leather in 1900, with 1,384 wage-earners, and products valued at \$5,182,065. In 1890 there were 113 establishments, 1,447 wage-earners, and products valued at \$6,701,670. The decrease in the value of products during the decade was \$1,519,605, or 22.7 per cent. The most extensive operations were at Cincinnati. There were 6 tanneries in that city in 1815,⁷ and large quantities of Ohio leather were shipped to New York in 1847, the greater part of which was exported to England.⁸ The value of products increased between 1850 and 1880, but has decreased since that year. The industry has been

⁴ Eighth Census of the United States, Manufactures, Introduction, page cxxv.

⁵ Documents Relative to Manufactures, supra cit., page 868.

⁶ One Hundred Years of American Commerce, Vol. II, page 379.

⁷ A Picture of Cincinnati, 1815, page 146.

⁸ Hunt's Merchants' Magazine, vol. 17, page 93.

¹ History of Cincinnati, pages 324 and 326.

² Report of the Cincinnati Chamber of Commerce, 1900, page 107.

³ United States Geological Survey: Mineral Resources, 1899, Nonmetallic Products, except Coal and Coke, page 88.

TABLE 4.—COMPARATIVE SUMMARY, AKRON, CANTON, CINCINNATI, CLEVELAND, COLUMBUS, DAYTON, SPRINGFIELD, TOLEDO, YOUNGSTOWN, AND ZANESVILLE, 1890 AND 1900, WITH PER CENT OF INCREASE—Continued.

	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Zanesville	1900	298	\$5,162,067	4,608	\$1,786,005	\$365,338	\$9,756,489	\$7,468,889
	1890	301	4,200,409	3,888	1,325,590	393,616	3,331,626	6,053,484
Per cent of increase		12.7	22.9	35.9	34.7	17.2	12.8	23.4
Total for 10 cities	1900	12,905	362,804,856	207,244	94,445,197	50,239,998	260,065,328	501,809,177
	1890	14,206	268,500,749	189,134	88,161,412	33,092,335	222,592,269	432,203,987
Per cent of increase		19.2	35.1	9.6	7.1	52.0	16.8	16.0
Per cent of 10 cities to total for state	1900	89.8	59.9	59.9	61.3	72.1	58.1	60.2
	1890	49.5	66.7	64.6	68.6	73.4	65.3	67.4

¹ Decrease.

It appears from Table 4 that there has been a considerable increase during the past decade in the combined manufactures of these 10 cities. The average number of wage-earners increased from 189,134 to 207,244, or 9.6 per cent, and the value of products from \$432,203,987 to \$501,809,177, or 16 per cent, but the number of establishments decreased from 14,206 to 12,905, or 9.2 per cent. The percentage of increase in the average number of wage-earners and in the value of products was smaller in these cities than in the state as a whole. The city of Youngstown shows the most rapid growth, the value of products having increased from \$14,667,260 to \$34,801,101, or 137.3 per cent. In Cincinnati, the leading manufacturing city in the state, the number of establishments decreased from 7,832 to 5,127, or 34.5 per cent; the average number of wage-earners from 84,167 to 63,240, or 24.9 per cent; and the value of products from \$196,063,983 to \$157,806,834, or 19.5 per cent. The number of establishments, number of wage-earners, and value of products, in this city in 1900, constituted 15.8, 18.3, and 19 per cent, respectively, of the totals for the state.

The value of products manufactured in the cities of Cincinnati and Cleveland amounted in 1880 to \$153,859,215 and in 1900 to \$297,656,640, constituting 44.2 and 35.8 per cent, respectively, of the totals for the state. There has been a noteworthy change in the relative positions of these cities during the century. Cincinnati was founded first, and developed early as a manufacturing city. In 1840 the capital invested in manufactures in this city was \$7,469,912, compared with \$128,632 in the city of Cleveland. During the first half of the century, the latter was chiefly a commercial center, but its development since 1860 as a manufacturing center has been rapid. The value of its products in 1900, \$139,849,806, was almost equal to that of Cincinnati, \$157,806,834.

The leading manufacturing industries of Cincinnati, in the order of their importance, were clothing, men's, factory product; foundry and machine shop products; slaughtering and meat packing; liquors, distilled; boots and shoes, factory product; liquors, malt; carriages and wagons; tobacco, cigars and cigarettes; and furniture, factory product.

In Cleveland, the city second in rank, the leading manufacturing industries were iron and steel; foundry and machine shop products; slaughtering and meat packing; clothing, women's, factory product; liquors, malt; clothing, men's, factory product; electrical apparatus and supplies; shipbuilding, iron and steel; petroleum, refining; bridges; and iron and steel, bolts, nuts, washers, and rivets.

In Columbus, the city third in rank, the leading manufacturing industries were iron and steel; foundry and machine shop products; boots and shoes, factory product; cars and general shop construction and repairs by steam railroad companies; carriages and wagons; liquors, malt; patent medicines and compounds; and oleomargarine.

In Toledo, the city fourth in rank, the leading manufacturing industries were flouring and grist mill products; coffee and spice, roasting and grinding; foundry and machine shop products; bicycles and tricycles; liquors, malt; petroleum, refining; lumber and timber products; and oil, linseed.

In Dayton, the city fifth in rank, the leading manufacturing industries were foundry and machine shop products; cash registers; cars, steam railroad, not including operations of railroad companies; tobacco, cigars and cigarettes; agricultural implements; slaughtering and meat packing; sewing machines and attachments; tobacco, stemming and rehandling; and liquors, malt.

In Youngstown, the city sixth in rank, the leading manufacturing industries were iron and steel; foundry and machine shop products; iron and steel pipe, wrought; and lumber, planing mill products.

In Akron, the city seventh in rank, the leading manufacturing industries were food preparations; rubber and elastic goods; foundry and machine shop products; printing and publishing, book and job; agricultural implements; pottery, terra cotta, and fire-clay products; oilcloth, enameled; and flouring and grist mill products.

In Springfield, the city eighth in rank, the leading manufacturing industries were agricultural implements; foundry and machine shop products; and printing and publishing, newspapers and periodicals.

In Canton, the city ninth in rank, the leading manufac-

turing industries were agricultural implements; ironwork, architectural and ornamental; iron and steel; watch cases; and foundry and machine shop products.

In Zanesville, which ranks tenth in Table 4, but which is the city fifteenth in rank in the state, the leading manufacturing industries were pottery, terra cotta, and fire-clay products; soap and candles; agricultural implements; and iron and steel.

Table 5 presents the totals for the manufacturing industries of the 101 cities and villages withdrawn from the enumerators, places them in comparison with the totals for the entire state and the state exclusive of these cities and villages, and shows their rank in population and in value of products.

TABLE 5.—URBAN MANUFACTURES.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	PRODUCTS.			POPULATION.		
				Average number.	Total wages.			Value.	Rank.	Per cent of total.	Total.	Rank.	Per cent of total.
Total for state	32,898	\$605,792,266	86,624	345,869	\$158,955,880	\$69,728,206	\$447,849,677	\$382,438,113	100.0	4,157,545	100.0		
Total for urban manufactures	21,005	524,748,522	22,979	802,176	136,878,160	64,041,858	380,094,808	719,792,803	86.5	1,918,903	46.0		
Akron	431	24,199,310	427	9,030	3,971,807	1,779,804	13,474,282	23,610,099	7	2.8	42,728	7	1.0
Alliance	145	5,804,953	158	1,749	784,989	160,343	1,906,204	3,730,144	27	0.4	8,974	22	0.2
Ashland	90	764,127	80	440	188,662	67,950	67,950	997,848	71	0.1	12,949	33	0.3
Athens	39	806,682	45	215	96,865	27,671	158,314	866,052	96	(1)	3,066	91	0.1
Barberton	27	3,866,886	26	1,115	461,082	328,720	1,804,453	3,256,844	31	0.4	4,354	76	0.1
Barnesville	56	508,124	68	418	183,033	87,903	358,674	657,060	88	0.1	3,721	83	0.1
Bellaire	94	3,612,811	97	2,141	923,305	250,403	6,129,193	9,150,462	12	1.1	9,912	29	0.2
Bellefontaine	104	620,585	119	713	311,942	44,706	662,703	1,139,201	67	0.1	6,649	51	0.2
Bellevue	38	661,742	37	301	125,986	25,057	539,671	834,880	76	0.1	4,101	77	0.1
Bridgeport	23	1,717,473	23	1,614	911,421	61,653	2,874,661	4,798,847	25	0.6	3,993	79	0.1
Bryan	59	315,671	75	180	73,054	24,232	208,849	396,757	95	(1)	3,131	90	0.1
Bucyrus	91	1,011,031	103	761	338,535	78,535	557,220	1,300,327	64	0.2	6,560	53	0.2
Cambridge	65	1,201,662	74	849	523,339	82,401	1,438,670	2,459,363	41	0.3	8,241	37	0.2
Canal Dover	75	1,931,838	79	1,507	721,242	128,719	2,026,574	3,880,494	30	0.4	5,422	65	0.1
Canton	502	10,094,813	541	6,455	2,970,245	1,081,809	5,604,399	12,258,427	9	1.5	30,667	9	6.7
Carthage	24	404,420	27	369	143,361	802,443	415,216	1,557,273	96	0.2	2,559	100	0.1
Celina	34	149,000	43	153	58,314	11,881	235,619	410,097	94	(1)	95	0.1	0.1
Chillicothe	115	914,447	128	1,223	454,644	36,614	814,665	1,709,895	53	0.2	12,976	22	0.3
Cincinnati	5,127	109,582,142	5,805	68,240	27,189,069	22,873,629	77,539,232	157,806,394	1	19.0	325,902	2	7.8
Circleville	83	1,168,592	113	686	221,470	99,518	1,273,874	1,933,996	48	0.2	6,991	48	0.2
Cleveland	2,927	98,303,082	3,078	68,810	27,892,689	11,665,697	71,597,595	139,849,906	2	16.8	381,768	1	9.2
Columbus	914	25,392,136	968	17,066	7,718,824	4,014,022	20,194,532	39,666,848	3	4.8	125,560	4	3.0
Conneaut	69	595,115	37	651	285,684	36,192	540,056	1,008,423	70	0.1	7,133	46	0.2
Coshocton	48	806,023	44	1,088	339,120	66,647	778,215	1,438,912	61	0.2	6,473	55	0.1
Cuyahoga Falls	27	906,439	32	522	253,292	58,794	921,147	1,462,767	60	0.2	3,156	89	0.1
Dayton	1,036	28,027,518	1,197	16,869	7,959,792	3,295,855	16,800,911	35,697,695	5	4.3	85,333	5	2.0
Deane	100	1,111,426	115	938	356,951	87,931	814,712	1,609,834	54	0.2	7,579	43	0.2
Delaware	69	595,596	82	655	248,446	57,188	351,467	846,645	75	0.1	7,940	39	0.2
Delphos	59	369,524	72	286	119,202	37,107	225,928	519,730	90	0.1	4,517	75	0.1
Dennison	33	378,143	34	892	524,693	73,480	584,396	1,295,334	65	0.2	3,763	82	0.1
East Liverpool	162	5,056,198	173	4,473	2,150,938	341,135	1,759,408	5,459,043	22	0.7	16,485	18	0.4
Eastwood Place	23	770,096	26	301	153,168	8,227	441,813	743,536	79	0.1	2,532	101	0.1
Elyria	76	1,778,819	69	968	391,841	137,958	999,280	1,760,500	51	0.2	8,791	33	0.2
Findlay	252	2,152,202	309	1,478	633,505	165,613	1,122,587	2,514,356	40	0.3	17,613	17	0.4
Fostoria	92	1,532,627	97	795	278,529	54,550	2,103,515	2,645,205	37	0.3	7,780	41	0.2
Franklin	39	448,290	39	296	119,118	15,891	521,908	864,036	74	0.1	2,724	98	0.1
Freemont	156	2,616,545	185	1,504	599,286	152,323	1,822,880	2,621,951	39	0.3	8,439	36	0.2
Galion	65	916,488	69	891	367,410	63,906	679,921	1,309,129	63	0.2	7,282	45	0.2
Gallipolis	89	491,907	91	458	150,479	54,833	368,482	731,063	80	0.1	5,432	64	0.1
Greenville	97	349,412	119	380	109,192	24,991	377,601	642,503	84	0.1	5,501	63	0.1
Hamilton	222	12,575,821	219	5,850	2,620,084	808,481	5,585,568	12,003,316	10	1.4	23,914	10	0.6
Hillsboro	48	331,539	49	293	114,135	18,140	305,399	574,958	87	0.1	4,535	74	0.1
Ironton	112	3,321,219	105	1,758	767,394	178,236	3,299,905	5,715,112	21	0.7	11,868	26	0.3
Jackson	43	454,008	44	147	60,363	16,899	256,791	510,111	91	0.1	4,672	70	0.1
Kent	59	723,218	60	945	405,237	18,195	1,079,937	1,599,562	55	0.2	4,541	73	0.1
Kenton	95	886,687	100	658	266,239	94,815	540,074	1,118,629	68	0.1	6,852	49	0.2
Lancaster	100	1,537,272	103	1,287	614,609	97,284	1,197,266	2,219,695	44	0.3	8,991	31	0.2
Lebanon	72	223,705	77	179	84,902	9,400	334,820	571,832	88	0.1	2,867	94	0.1
Leetonia	32	2,121,818	36	496	280,162	102,977	1,943,900	2,725,457	36	0.3	2,744	97	0.1
Lima	195	5,487,584	230	2,223	1,050,780	277,408	4,156,028	6,705,136	17	0.8	21,723	12	0.5
Lockland	56	2,313,049	51	596	230,750	228,010	1,232,579	2,300,960	43	0.3	2,695	99	0.1
Lorain	59	1,115,939	57	2,221	1,115,939	616,457	6,544,799	9,547,952	11	1.1	16,028	19	0.4
Mansfield	251	5,760,746	293	3,160	1,217,457	307,182	3,195,033	7,084,509	16	0.8	17,640	16	0.4
Marietta	278	2,189,345	335	2,138	938,315	214,725	1,899,637	3,895,498	26	0.5	13,348	21	0.3
Marion	84	3,340,321	78	1,552	699,065	306,033	1,200,756	2,841,903	35	0.3	11,862	27	0.3
Martins Ferry	50	1,802,871	56	907	543,416	90,518	1,953,872	2,968,648	34	0.4	7,760	40	0.2
Marysville	47	179,325	68	236	82,699	20,506	165,241	347,283	98	(1)	3,048	92	0.1
Massillon	134	4,444,400	149	1,836	914,245	172,155	1,563,267	3,404,012	29	0.4	11,944	25	0.3
Miamisburg	66	1,500,248	64	1,006	400,143	83,122	1,300,713	2,131,005	45	0.3	3,941	80	0.1
Middleport	38	197,039	39	225	69,325	13,022	154,866	338,312	99	(1)	2,799	96	0.1
Middletown	92	4,207,731	92	1,951	770,556	2,112,601	3,056,601	6,665,226	18	0.8	9,215	30	0.2
Mingo Junction	12	2,921,036	9	944	566,645	131,395	5,526,128	7,563,573	13	0.9	2,954	93	0.1
Mt. Vernon	93	830,061	110	853	383,638	53,778	1,073,247	1,716,532	52	0.2	6,633	52	0.2
Napoleon	78	448,500	94	293	91,822	25,015	295,890	541,572	89	0.1	3,689	84	0.1
Nelsonville	39	224,179	48	300	80,115	12,107	117,267	258,148	100	(1)	5,421	66	0.1

¹ Less than one-tenth of 1 per cent.

TABLE 5.—URBAN MANUFACTURES—Continued.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	PRODUCTS.			POPULATION.		
				Average number.	Total wages.			Value.	Rank.	Per cent of total.	Total.	Rank.	Per cent of total.
Newark	208	\$1,798,448	294	2,364	\$925,443	\$228,797	\$1,417,157	\$3,423,186	28	0.4	18,157	14	0.4
New Philadelphia	124	859,493	130	658	482,182	86,576	905,007	1,820,296	50	0.2	6,213	57	0.1
Niles	64	2,745,374	66	1,641	1,281,629	123,647	3,441,219	5,758,129	20	0.7	7,468	44	0.2
North Baltimore	39	193,793	45	112	49,048	16,052	100,695	243,882	101	(1)	3,561	86	0.1
Norwalk	96	995,025	91	817	394,585	128,088	561,996	1,336,395	62	0.2	7,074	47	0.2
Norwood	52	951,314	61	467	203,138	52,839	430,221	820,892	77	0.1	6,480	54	0.1
Painesville	77	513,621	88	488	165,408	36,914	319,300	693,949	81	0.1	5,024	68	0.1
Piqua	152	3,609,002	166	2,103	988,836	259,807	3,765,259	5,886,474	19	0.7	12,172	24	0.3
Pomercroy	70	852,132	69	725	311,959	40,898	961,112	1,522,626	58	0.2	4,639	71	0.1
Portsmouth	284	4,113,700	315	4,586	1,556,190	802,946	3,824,098	7,532,976	14	0.9	17,870	15	0.4
Ravenna	76	821,127	90	740	279,153	43,790	550,204	1,210,415	66	0.1	4,003	78	0.1
St. Marys	57	556,209	60	458	192,711	37,786	462,842	893,823	73	0.1	5,359	67	0.1
Salem	106	2,090,708	117	977	569,352	135,603	1,230,584	2,380,424	42	0.8	7,582	42	0.2
Sandusky	176	4,627,981	187	1,648	650,895	379,042	1,894,147	3,190,342	32	0.4	19,664	13	0.5
Shelby	63	2,409,230	69	1,045	478,446	134,264	1,770,640	2,625,066	38	0.8	4,685	69	0.1
Sidney	107	1,173,805	125	985	337,610	101,178	1,088,669	1,858,026	49	0.2	5,688	62	0.1
Springfield	305	14,091,175	300	6,638	3,160,119	1,286,798	5,569,261	12,777,173	8	1.5	36,253	8	0.9
Steubenville	171	2,587,180	189	2,051	874,095	227,624	2,698,875	5,235,161	23	0.6	14,349	20	0.3
Tiffin	153	2,319,720	168	1,368	569,600	194,471	900,003	2,107,805	46	0.2	10,989	28	0.3
Toledo	1,050	25,591,916	1,114	15,383	6,845,687	3,068,389	21,886,798	37,372,355	4	4.5	131,822	3	3.2
Toronto	40	649,653	40	640	315,400	66,130	235,721	809,446	78	0.1	3,526	87	0.1
Troy	104	1,664,085	140	899	355,227	197,579	1,135,619	2,019,557	47	0.2	5,881	60	0.1
Ulrichsville	78	273,602	76	271	104,650	25,694	197,070	446,780	92	0.1	4,582	72	0.1
Upper Sandusky	85	288,744	44	165	60,477	21,655	187,106	357,505	97	(1)	3,355	88	0.1
Urbana	112	1,122,435	137	811	273,822	94,404	1,477,733	1,477,962	59	0.2	6,808	50	0.2
Van Wert	81	434,678	74	354	150,514	42,348	313,575	627,672	85	0.1	6,422	56	0.1
Wapakoneta	60	462,777	70	411	142,628	49,629	289,717	604,781	86	0.1	3,915	81	0.1
Warren	110	2,952,697	115	1,948	835,718	198,109	2,671,115	4,840,160	21	0.6	8,529	35	0.2
Washington Court House	67	403,031	75	276	101,849	24,376	352,233	659,899	82	0.1	5,751	61	0.1
Wellston	41	855,606	42	333	169,075	27,327	595,415	1,056,110	69	0.1	8,045	38	0.2
Wellsville	61	1,233,863	67	969	511,064	47,624	660,918	1,548,190	57	0.2	6,146	58	0.1
Wilmington	61	247,783	78	188	78,635	21,860	241,511	440,237	98	0.1	3,613	85	0.1
Wooster	97	626,188	105	447	169,490	37,114	463,725	985,579	72	0.1	6,063	59	0.1
Xenia	106	1,819,614	128	1,105	894,386	139,647	2,171,360	3,122,797	33	0.4	8,696	34	0.2
Youngstown	260	22,360,097	253	9,150	4,951,460	968,636	23,541,769	34,801,101	6	4.2	44,885	6	1.1
Zanesville	293	5,162,067	336	4,603	1,786,005	305,388	3,756,489	7,463,339	15	0.9	23,538	11	0.6
Total for state exclusive of urban manufactures	11,393	81,043,744	13,645	43,693	17,877,170	5,686,348	67,754,869	112,645,310		13.5	2,243,642		54.0
Per cent of urban manufactures to total for state	64.8	86.6	62.7	87.4	88.6	91.8	84.9	86.5			46.0		

¹ Less than one-tenth of 1 per cent.

Of the 32,398 establishments in the state, 21,005, or 64.8 per cent, were located in these 101 cities and villages. They furnished employment to 302,176 wage-earners, or 87.4 per cent of the total number, and the value of their products, \$719,792,803, formed 86.5 per cent of the total for the state.

Table 6 shows the totals for the state by counties.

Table 7 shows the totals for the state by specified industries.

Table 8 shows the totals for the cities of Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Hamilton, Lima, Springfield, Toledo, Youngstown, and Zanesville by specified industries.

Table 9 shows the totals for all industries in the cities and villages withdrawn from the enumerators, exclusive of those shown in Table 8.

TABLE 6.—MANUFACTURES

COUNTIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 The State	32,398	\$905,792,266	\$49,658,809	\$94,493,935	\$158,086,928	\$302,652,564	36,624	30,003	\$20,351,015	345,869	\$158,955,330
2 Adams	138	826,847	28,310	41,195	123,025	184,817	175	19	19,570	260	81,176
3 Allen	402	6,130,870	871,761	815,655	2,489,791	2,459,668	474	227	177,416	2,776	1,275,743
4 Ashland	133	1,054,453	71,285	140,859	197,781	614,578	163	66	45,300	545	178,615
5 Ashtabula	302	2,548,145	285,785	355,828	714,714	1,191,818	450	121	102,007	1,827	775,919
6 Athens	158	912,904	81,030	236,782	234,923	860,119	186	54	34,411	578	234,727
7 Auglaize	257	1,559,751	137,679	339,952	394,804	687,316	305	95	71,040	1,289	474,692
8 Belmont	358	7,070,900	407,099	1,411,633	4,057,275	2,004,888	407	264	295,075	5,472	2,651,588
9 Brown	156	463,923	81,035	82,505	184,309	165,964	184	32	19,308	374	122,754
10 Butler	482	17,743,450	1,217,066	2,926,448	4,719,193	8,880,752	439	624	759,542	8,238	3,566,016
11 Carroll	122	388,304	35,988	102,830	131,700	117,786	149	22	11,490	841	300,031
12 Champaign	249	1,468,170	123,208	280,985	402,685	656,842	306	78	62,186	1,050	862,027
13 Clark	391	14,514,195	727,755	1,614,574	2,111,486	10,060,360	404	1,331	1,131,549	8,806	3,232,382
14 Clermont	150	632,134	49,876	100,578	161,071	320,609	175	37	23,964	603	181,330
15 Clinton	62	548,009	50,810	102,516	189,137	211,540	219	33	21,268	440	163,703
16 Columbiana	1620	13,227,220	1,032,795	3,145,548	3,951,176	5,997,701	689	695	631,633	8,809	4,344,734
17 Coshocton	147	1,032,944	48,075	138,317	409,087	437,465	167	132	112,545	1,196	379,705
18 Crawford	254	2,455,634	204,988	537,945	646,984	1,005,717	285	151	114,838	2,203	936,467
19 Cuyahoga	3,137	110,375,476	8,680,072	13,523,545	31,919,986	56,251,873	3,310	5,600	6,967,666	63,867	30,612,805
20 Darke	326	778,043	63,306	101,106	240,202	373,440	248	23	11,983	787	248,789
21 DeKalb	200	1,430,606	102,570	215,713	323,791	783,582	248	72	62,435	1,207	446,179
22 Delaware	160	1,842,733	630,504	220,287	380,554	611,385	198	64	54,858	861	352,453
23 Erie	255	5,631,678	593,174	1,056,668	1,067,590	2,314,248	267	203	212,182	2,055	800,630
24 Fairfield	206	1,837,980	151,681	332,775	456,639	866,855	237	96	73,602	1,628	730,861
25 Fayette	126	651,018	32,849	102,421	217,068	301,077	146	52	32,400	405	143,990
26 Franklin	1,046	26,149,471	2,619,933	3,772,412	7,187,047	12,570,020	1,119	1,788	1,669,084	17,716	7,990,354
27 Fulton	138	452,914	68,717	82,805	137,867	163,525	172	6	2,050	237	100,337
28 Gallia	155	621,895	60,070	101,895	187,335	272,595	180	36	25,322	534	186,449
29 Geauga	128	311,880	21,700	56,200	97,880	193,100	147	13	7,885	274	114,281
30 Greene	218	2,814,981	106,012	301,956	673,183	1,228,830	256	90	114,627	1,421	490,883
31 Guernsey	189	1,487,334	78,292	179,430	329,112	705,000	244	67	59,757	1,035	614,623
32 Hamilton	5,582	124,571,235	11,743,986	17,581,210	25,538,982	69,707,057	6,300	7,077	7,277,868	68,114	29,138,241
33 Hancock	357	2,541,646	149,292	559,109	693,547	1,146,698	434	149	119,610	1,785	744,030
34 Hardin	214	1,265,783	114,155	241,508	312,151	507,649	251	74	58,476	917	355,122
35 Harrison	122	436,395	105,105	70,545	149,754	110,991	151	20	10,715	289	100,325
36 Henry	197	789,386	63,938	155,875	186,003	338,920	237	23	13,670	553	208,680
37 Highland	180	1,062,392	64,025	137,041	238,928	622,398	224	57	53,589	985	339,960
38 Hocking	61	752,929	65,376	209,577	192,734	285,242	110	32	35,300	533	177,843
39 Holmes	121	293,656	39,890	63,461	100,260	96,075	188	5	4,740	171	62,897
40 Huron	282	2,285,722	130,832	369,423	536,232	1,240,230	307	186	117,919	1,661	717,228
41 Jackson	141	1,503,253	87,704	393,345	224,808	797,401	150	46	38,470	766	314,104
42 Jefferson	300	7,359,590	692,201	1,683,392	3,256,108	1,727,839	319	201	216,362	4,302	2,076,828
43 Knox	163	908,830	78,785	205,630	357,051	355,314	191	64	52,645	923	413,661
44 Lake	165	1,117,692	124,688	201,370	273,678	517,956	200	65	43,387	821	309,555
45 Lawrence	182	4,000,552	686,450	816,428	1,250,139	2,266,535	188	147	145,296	2,374	947,186
46 Licking	341	2,464,382	186,977	455,965	577,366	1,244,074	397	177	140,437	2,685	1,032,579
47 Logan	301	1,260,510	209,529	231,712	388,949	430,320	365	66	47,786	1,070	442,224
48 Losh	298	15,021,890	1,131,833	3,116,591	4,335,029	6,438,446	318	264	238,522	3,383	1,766,134
49 Lucas	1,132	25,956,176	2,203,319	4,637,693	6,746,785	12,378,379	1,204	1,299	1,246,477	15,596	6,924,463
50 Madison	151	422,070	35,244	73,325	150,865	173,256	185	9	6,560	230	79,893
51 Mahoning	337	24,577,654	1,749,130	3,678,631	11,336,230	7,813,663	411	506	564,809	10,125	5,383,139
52 Marion	185	3,681,902	416,221	459,269	447,882	2,358,530	203	139	130,973	1,850	794,492
53 Medina	143	1,153,457	65,289	188,984	236,200	602,984	177	44	28,738	587	228,427
54 Meigs	173	1,227,567	109,346	242,923	401,210	474,088	191	66	43,859	1,081	457,420
55 Mercer	176	516,857	67,625	92,315	154,902	212,015	224	18	11,145	373	142,856
56 Miami	405	6,007,615	465,746	913,901	1,197,196	3,440,772	469	338	320,795	3,454	1,509,398
57 Monroe	179	278,259	32,485	53,717	90,910	101,147	222	6	4,145	183	63,212
58 Montgomery	1,361	31,812,559	1,992,675	4,561,826	5,339,826	19,868,232	1,491	1,582	1,707,131	19,209	8,796,539
59 Morgan	89	476,716	23,966	66,410	60,339	325,981	105	30	26,332	300	104,301
60 Morrow	85	393,296	22,575	53,100	83,900	233,721	110	10	8,879	189	87,807
61 Muskingum	420	6,174,217	484,330	1,267,505	1,531,374	2,890,508	483	464	353,809	5,325	2,047,803
62 Noble	89	178,050	13,107	32,670	77,982	54,891	117	4	1,530	112	37,112
63 Ottawa	161	847,735	67,665	184,456	232,216	363,398	185	35	38,260	549	197,364
64 Paulding	169	361,655	31,160	52,033	125,193	150,219	203	3	3,080	294	95,439
65 Perry	104	1,192,539	419,095	254,585	187,102	351,847	137	40	30,096	614	307,590
66 Pickaway	181	1,408,384	124,824	269,755	457,883	555,922	221	62	35,041	887	279,626
67 Pike	63	164,516	18,790	44,390	51,480	49,856	73	4	1,530	107	43,305
68 Portage	276	1,331,732	96,143	445,603	512,156	777,820	320	76	65,851	1,851	750,509
69 Preble	223	562,108	42,520	93,340	139,841	286,407	231	27	11,084	470	170,447
70 Putnam	217	771,916	89,861	118,140	208,874	355,041	260	31	34,537	578	222,506
71 Richland	433	8,371,939	303,311	1,178,436	2,134,761	4,704,931	507	443	412,005	4,363	1,751,260
72 Ross	207	1,385,064	195,585	279,055	391,011	519,463	238	85	49,414	1,400	522,073
73 Sandusky	300	3,191,978	197,337	542,076	783,310	1,661,205	351	194	204,383	1,352	744,389
74 Scioto	355	4,730,925	500,505	902,966	1,161,431	2,125,973	404	415	330,639	4,952	1,704,134
75 Seneca	380	4,207,050	257,006	908,686	1,864,289	1,677,069	402	193	145,818	2,545	994,815
76 Shelby	200	1,450,547	120,255	285,840	399,422	615,030	231	93	69,638	1,132	401,377

BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
287,789	\$140,864,129	53,711	\$12,888,284	4,809	\$707,917	\$63,728,206	\$4,741,189	\$3,035,915	\$54,602,073	\$7,349,029	\$447,849,677	\$427,855,909	\$13,993,768	\$892,438,113	1
289	78,179	19	2,837	2	160	10,513	2,088	2,947	5,853	125	385,237	380,816	4,421	709,114	2
2,353	1,188,276	413	86,845	5	622	327,486	33,275	24,613	217,712	46,886	4,653,119	4,478,879	174,240	7,791,420	3
429	157,186	102	20,143	14	1,286	127,916	4,505	9,420	112,791	1,200	753,149	743,900	9,249	1,361,444	4
1,620	729,766	205	45,617	2	346	164,250	20,023	12,889	95,617	85,716	2,342,821	2,342,821	41,691	3,953,128	5
524	223,036	41	10,245	13	1,630	56,194	7,383	8,090	34,318	6,403	599,227	560,570	38,657	1,133,523	6
1,190	455,571	81	17,175	18	1,946	128,763	12,182	11,869	95,285	7,427	1,170,387	1,123,524	41,863	2,288,305	7
4,693	2,493,972	614	132,834	160	25,092	506,406	16,748	47,188	441,386	1,084	11,654,606	10,770,010	947,596	18,186,947	8
317	113,327	47	8,642	10	785	32,608	4,807	4,162	20,139	3,500	623,183	616,978	6,337	951,932	9
6,822	3,223,237	1,329	931,212	87	11,567	2,963,679	46,006	73,089	2,833,423	4,555	9,173,815	8,876,482	301,701	19,724,042	10
320	127,423	11	2,508	1	100	14,784	2,452	2,375	9,207	750	338,629	309,268	29,361	663,439	11
885	327,182	161	39,905	4	940	107,925	14,040	10,973	80,887	2,025	1,104,037	1,072,164	31,873	2,074,985	12
6,284	3,113,295	497	115,255	25	3,832	1,316,250	56,446	80,589	1,165,027	23,583	5,842,344	5,078,592	163,752	13,294,221	13
410	142,401	178	39,553	15	2,376	127,573	2,819	4,384	32,369	1,901	720,065	699,963	20,379	1,234,907	14
384	153,810	52	11,566	4	327	39,015	7,693	3,800	25,680	2,337	691,681	677,636	13,718	1,025,810	15
7,215	3,614,386	1,531	416,876	63	13,473	716,464	44,642	46,646	507,537	117,319	7,677,339	6,657,644	1,020,195	15,904,334	16
781	291,795	409	87,266	6	644	74,435	3,426	7,367	62,642	1,000	1,065,853	1,049,958	15,895	1,859,326	17
2,070	912,402	111	22,013	22	2,052	162,556	14,592	17,846	124,383	5,730	1,686,543	1,645,707	40,836	3,448,282	18
54,234	28,288,910	9,132	2,229,360	501	94,535	12,199,625	1,049,454	641,476	8,439,757	2,168,933	83,753,742	80,377,228	3,381,474	156,730,354	19
617	218,842	135	27,971	15	1,976	47,097	14,536	6,533	24,805	1,223	868,842	851,220	17,622	1,473,517	20
1,054	419,786	143	25,557	10	836	99,529	13,564	12,973	72,342	150	1,030,047	1,007,094	22,953	2,041,589	21
704	319,463	151	32,330	6	620	74,799	11,753	6,176	56,865	2,583	674,165	698,424	75,741	1,456,330	22
1,786	757,901	220	44,695	49	7,634	458,115	25,748	7,071	405,975	1,040	1,911,055	1,782,631	128,424	4,252,300	23
1,196	609,723	328	98,157	104	22,973	108,375	10,722	7,929	79,294	10,430	1,588,038	1,551,035	32,003	2,822,449	24
327	124,682	74	13,868	4	440	38,806	7,304	4,014	21,394	92	437,842	437,842	9,409	965,356	25
15,166	7,360,420	2,274	581,450	276	48,484	4,056,537	257,748	176,880	3,346,074	235,335	20,706,796	19,752,858	953,938	40,712,336	26
214	96,099	18	3,781	5	507	26,213	3,427	3,257	10,279	9,250	626,286	618,921	12,365	981,356	27
483	178,913	38	6,674	8	862	59,243	7,071	5,439	46,493	235	527,028	518,275	8,753	977,561	28
250	110,314	20	3,617	4	350	9,644	8,209	1,632	4,803	16,676	529,141	523,123	6,018	834,844	29
1,184	450,026	281	55,157	6	680	167,365	15,850	15,741	119,053	16,676	2,946,603	2,900,231	46,372	4,267,277	30
976	601,262	54	12,921	6	450	93,803	7,330	6,945	79,023	565	1,816,107	1,763,805	52,302	3,104,843	31
50,980	25,048,131	16,013	3,926,266	1,121	163,844	25,922,446	1,672,928	630,720	20,495,701	3,123,597	85,436,302	84,175,979	1,260,323	173,582,824	32
1,563	700,191	201	40,897	21	2,992	178,273	22,992	13,055	112,930	29,261	1,559,990	1,484,625	75,365	2,355,010	33
327	334,915	78	18,820	12	1,387	106,357	14,244	7,802	53,490	851	812,902	791,157	21,745	1,616,233	34
264	95,303	20	4,372	5	650	20,406	3,379	2,033	11,039	1,700	345,908	335,737	10,171	614,819	35
517	200,769	31	7,000	5	321	43,303	7,047	5,855	29,781	80	657,233	637,015	20,218	1,153,177	36
779	293,306	192	44,533	14	2,121	56,672	6,731	7,546	41,992	408	1,879,019	1,856,216	22,803	2,164,974	37
511	173,661	15	3,249	7	933	34,016	5,475	6,534	22,037	1,489,032	1,866,932	30,134	757,017	38	
158	69,142	13	2,630	2	125	13,770	2,856	1,777	9,637	100	327,375	317,761	9,614	523,353	39
1,451	685,829	185	47,041	25	4,353	134,450	13,482	12,554	150,839	2,544	1,642,791	1,608,859	33,932	3,122,535	40
730	306,822	27	5,781	9	1,501	56,706	6,768	7,672	41,476	850	990,062	716,661	273,401	1,386,795	41
3,754	1,953,467	333	84,064	215	39,297	456,844	79,778	42,782	325,018	9,616	9,471,652	8,213,322	1,258,330	15,246,129	42
861	400,463	59	12,845	3	351	62,046	10,837	7,154	43,735	270	1,276,606	1,261,853	14,753	2,023,520	43
765	297,800	51	11,271	5	984	63,823	8,585	4,206	51,805	4,227	702,688	675,235	27,453	1,443,219	44
2,273	927,207	85	17,559	16	2,420	277,433	14,839	39,478	135,342	37,774	4,274,333	3,633,967	640,366	7,237,537	45
2,249	942,627	306	71,132	80	18,760	249,427	22,725	16,890	180,375	28,387	1,733,705	1,630,323	53,377	4,035,420	46
987	427,588	62	11,695	21	2,931	64,486	13,599	11,558	33,229	6,100	1,094,411	1,050,160	44,251	2,016,099	47
3,499	1,639,722	305	61,896	84	14,516	895,349	18,631	29,311	727,177	29,680	8,205,343	7,418,348	786,995	12,637,341	48
12,905	6,313,740	2,425	556,446	266	54,267	3,092,494	262,124	165,672	2,507,693	167,005	22,364,762	21,850,667	514,095	37,997,505	49
183	72,404	43	7,035	4	454	24,947	7,297	2,842	14,603	200	356,187	326,068	10,119	612,836	50
9,842	5,314,198	260	69,623	23	4,318	1,115,661	41,655	58,052	1,009,215	6,739	26,113,419	23,596,507	2,516,912	33,774,429	51
1,744	775,792	81	15,835	25	2,865	323,444	15,196	28,099	273,624	1,525	1,670,768	1,578,538	92,230	3,583,934	52
469	202,646	111	25,181	7	600	73,894	5,024	60,021	13,805	275	853,755	826,530	27,175	1,435,508	53
979	441,642	62	11,016	40	4,768	63,698	7,330	8,305	45,756	1,802	1,393,846	1,328,051	65,795	2,285,129	54
336	137,034	29	4,713	3	1,104	25,424	6,002	3,592	14,345	985	574,430	560,036	14,400	1,160,467	55
2,913	1,397,061	531	112,390	5	447	505,203	29,392	32,052	423,131	20,628	5,641,363	5,523,500	117,863	9,069,414	56
122	49,822	64	13,169	2	221	31,902	4,739	2,458	24,575	130	349,622	342,375	7,247	589,208	57
15,236	7,750,199	3,745	1,013,572	193	32,768	3,735,046	226,984	160,725	3,055,343	291,439	19,784,544	19,400,462	384,082	40,324,426	58
253	94,038	45	9,993	2	270	27,921	3,233	5,000	19,663	1,000	370,453	364,173	6,280	679,047	59
170	64,666	17	2,902	2	239	14,633	2,659	2,459	9,515	1,000	306,391	300,903	5,488	560,366	60
4,137	1,810,232	1,167	232,975	32	4,596	403,163	34,639	48,635	326,971	2,368	4,403,700	4,114,832	288,868	8,629,539	61
91	32,976	18	3,745	3	391	3,143	1,130	1,514	4,804	700	203,972	201,263	2,709	341,202	62
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TABLE 6.—MANUFACTURES

	COUNTIES AND MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
77	Stark	1,020	\$21,680,606	\$1,755,560	\$8,824,871	\$4,717,139	\$11,383,096	1,118	877	\$814,948	11,122	\$5,081,726
78	Summit	599	29,598,083	1,885,252	6,641,710	7,608,180	14,607,991	618	1,270	1,188,522	11,191	4,887,124
79	Trumbull	861	8,858,865	365,401	1,049,361	2,302,962	5,141,138	395	276	307,727	4,881	2,821,719
80	Tuscarawas	488	4,222,833	267,750	1,066,622	1,379,020	1,509,441	489	239	203,300	4,107	2,140,614
81	Union	190	926,615	82,210	62,555	111,055	130,795	105	10	6,550	319	112,379
82	Van Wert	170	677,918	92,880	82,600	226,481	276,007	169	84	19,881	598	237,996
83	Vinton	51	154,287	25,485	19,060	62,025	47,667	71	7		74	26,768
84	Warren	201	2,176,133	269,459	803,281	698,360	905,033	222	68	82,958	1,077	405,451
85	Washington	404	2,668,141	364,645	428,219	615,972	1,259,805	504	178	139,808	2,616	1,068,686
86	Wayne	290	1,667,505	142,015	342,483	496,177	686,830	355	77	51,957	901	351,616
87	Williams	214	898,312	59,947	161,635	214,268	462,462	250	53	36,040	711	283,739
88	Wood	328	3,430,700	363,669	550,176	1,637,403	380,452	377	70	70,204	1,184	502,433
89	Wyandot	81	480,817	44,655	97,699	132,142	206,321	110	16	10,545	308	117,724

TABLE 7.—MANUFACTURES BY

		\$2,398	\$605,792,266	\$49,658,800	\$94,408,965	\$158,986,928	\$302,052,564	36,624	30,008	\$29,351,045	315,860	\$153,055,330
1	All industries											
2	Agricultural implements	78	28,628,442	1,031,012	2,199,037	1,898,782	13,499,611	58	1,588	1,368,775	6,852	3,271,163
3	Ammunition	3	675,827	100	400	257,467	417,860	2	32	40,499	371	111,167
4	Artificial feathers and flowers	4	1,600			200	1,400	4	1	100	6	2,450
5	Artificial limbs	6	6,975			2,025	4,950	7			6	3,216
6	Awnings, tents, and sails	32	413,500	94,400	58,472	37,913	222,710	31	53	44,760	244	97,676
7	Bags, other than paper	4	362,850	15,000	20,000	83,900	238,950	3	20	19,512	204	54,940
8	Bags, paper	10	390,236	10,000	10,000	125,605	244,630	4	56	40,684	213	67,923
9	Baking and yeast powders	15	177,381	7,150	25,400	14,950	129,881	11	55	38,156	101	39,573
10	Baskets, and rattan and willow ware	43	123,589	11,800	19,510	55,080	37,699	44	11	6,510	274	90,207
11	Belting and hose, leather	5	486,251	15,000	20,380	47,500	408,421	3	42	45,487	92	48,307
12	Bicycle and tricycle repairing	377	345,882	26,733	30,796	129,891	158,462	435	12	5,164	311	182,591
13	Bicycles and tricycles	34	4,074,576	74,537	437,853	1,786,524	1,825,662	20	209	197,406	2,880	1,017,061
14	Billiard tables and materials	6	29,100			1,750	27,350	6	4	5,570	21	11,980
15	Blacking	3	21,000			2,500	18,500	5	1	520	19	5,121
16	Blacksmithing and wheelwrighting	3,585	2,650,444	580,337	730,941	498,468	840,633	4,071	21	7,990	2,057	961,904
17	Bookbinding and blank book making	53	272,657			118,748	158,909	63	33	24,149	397	154,044
18	Boot and shoe cut stock	4	102,662			10,662	92,000	4	7	5,040	42	17,500
19	Boot and shoe uppers	7	2,100			925	1,175	6	6		6	2,685
20	Boots and shoes, custom work and repairing	1,461	486,284	98,665	117,953	111,763	162,898	1,521	13	7,620	569	240,728
21	Boots and shoes, factory product	81	7,549,142	168,950	464,718	1,180,322	5,735,157	87	888	960,890	12,718	3,989,744
22	Bottling	63	328,338	42,920	62,650	27,370	195,398	64	43	32,988	170	79,814
23	Boxes, cigar	32	354,259	40,450	73,875	73,875	166,061	40	29	18,006	517	150,592
24	Boxes, fancy and paper	35	784,449	5,000	9,000	866,850	403,599	35	85	97,571	1,474	331,506
25	Boxes, wooden packing	61	1,187,705	172,225	154,327	218,461	642,192	70	50	49,489	1,117	334,057
26	Brass castings and brass finishing	39	1,147,838	48,825	175,991	346,166	576,866	47	65	66,331	981	395,135
27	Brassware	7	581,733	10,000	44,000	101,850	425,883	6	34	44,360	331	185,321
28	Bread and other bakery products	956	5,056,649	659,700	970,777	2,230,886	1,201,230	1,029	567	358,308	3,519	1,629,341
29	Brick and tile	636	7,343,927	1,634,603	2,205,308	1,437,325	2,006,893	853	208	139,192	6,353	1,960,971
30	Bridges	16	2,478,945	110,346	234,489	675,524	1,453,068	8	138	153,419	1,437	715,410
31	Brooms and brushes	117	380,640	42,890	87,432	194,566	556,212	144	93	49,101	994	324,366
32	Buttons	4	49,645			15,500	34,145	5	7	4,786	72	18,268
33	Carpentering	1,135	2,464,362	233,233	342,233	307,922	1,520,974	1,324	108	81,642	5,242	2,918,959
34	Carpets, rug	113	72,031	10,755	17,795	23,534	19,647	118	10	6,753	120	36,987
35	Carrages and wagon materials	103	5,251,795	391,934	753,834	1,199,727	2,908,280	93	275	271,531	4,529	1,730,022
36	Carrages and sleds, children's	9	949,225	14,640	228,000	214,350	492,235	8	42	49,101	787	333,580
37	Carrages and wagons	543	12,158,302	1,199,593	1,980,861	818,455	8,159,393	717	687	576,062	7,274	3,369,550
38	Cars and general shop construction and repairs by steam railroad companies	31	5,701,129	659,277	1,651,260	1,304,205	2,036,357		576	456,971	11,534	6,087,032
39	Cars and general shop construction and repairs by street railroad companies	4	123,050	15,500	46,000	30,500	31,050		7	4,316	229	137,335
40	Cars, steam railroad, not including operations of railroad companies	5	2,581,394	43,977	246,517	137,833	2,143,517		61	75,616	1,805	862,011
41	Cars, street railroad, not including operations of railroad companies	3	252,773	10,000	25,000	49,651	168,122	2	13	11,830	275	152,810
42	Charcoal	7	22,837	1,220	230	2,625	18,762	6	3	2,500	87	22,895
43	Cheese and butter, urban dairy products	5	14,080	7,820	800	2,525	2,525	9			7	2,152
44	Cheese, butter, and condensed milk, factory product	479	1,041,008	55,547	324,312	335,546	275,688	391	89	19,038	339	139,804
45	Chemicals	35	3,670,401	397,680	513,045	976,144	1,778,532	21	164	199,166	609	340,332
46	China decorating	8	1,910	50	50	530	1,280	8				
47	Cleansing and polishing preparations	12	36,890	1,650	3,250	3,945	23,045	10	12	17,756	23	6,974
48	Cloth, sponging and refinishing	3	3,757			2,290	1,467	5			31	15,699
49	Clothing, men's, custom work and repairing	1,543	3,216,481	271,185	324,253	191,697	2,429,346	1,789	227	165,411	5,190	2,146,206
50	Clothing, men's, factory product	539	10,732,010	139,700	234,404	221,568	10,136,398	676	735	305,398	6,521	2,143,619
51	Clothing, men's, factory product, buttonholes	8	20,625	100	600	16,100	3,825	10	1	416	174	51,568

BY COUNTIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
9,826	\$4,768,763	1,147	\$290,402	149	\$27,561	\$1,488,298	\$79,021	\$74,109	\$1,105,749	\$229,419	\$10,016,008	\$9,587,261	\$428,747	\$21,216,888	77
9,285	4,897,837	1,878	479,458	78	10,329	2,211,700	61,548	136,999	1,636,916	376,237	16,767,864	16,257,030	510,834	29,404,004	78
4,478	2,785,671	326	82,740	27	3,808	434,714	18,356	23,574	332,259	60,525	9,920,977	8,778,337	1,142,640	16,126,697	79
3,879	2,097,663	196	88,128	82	4,823	338,494	17,227	24,894	258,257	38,086	4,701,997	4,386,148	315,849	8,528,451	80
281	105,293	37	6,886	1	200	27,496	5,130	2,641	18,170	1,555	353,461	339,512	13,949	664,352	81
545	228,488	42	8,513	6	995	58,494	6,778	4,916	21,231	20,569	821,863	805,727	16,138	1,864,164	82
70	26,068	3	600	1	100	3,975	583	1,126	2,266	547	265,149	262,957	2,192	377,543	83
789	341,955	285	63,216	8	280	12,797	12,560	57,010	547	1,737,644	1,691,224	46,320	2,815,006	84	
2,315	1,009,511	232	49,439	69	9,736	231,784	23,306	20,982	111,363	75,633	2,577,209	2,511,585	65,621	4,926,591	85
781	329,699	113	21,060	7	857	78,463	10,355	8,879	51,517	2,717	1,843,612	1,297,154	46,458	2,423,667	86
646	271,458	59	11,830	6	901	46,814	8,212	4,383	33,634	130	767,605	752,975	14,630	1,392,311	87
1,120	489,494	61	12,484	3	505	94,094	10,905	8,776	69,553	4,860	1,436,243	1,338,307	97,936	2,541,832	88
286	118,602	16	2,873	6	1,249	38,087	2,729	4,121	26,037	200	448,119	433,587	14,532	751,230	89

SPECIFIED INDUSTRIES: 1900.

287,789	\$140,364,129	53,711	\$12,838,284	4,369	\$707,917	\$69,728,206	\$4,741,189	\$3,035,915	\$51,602,073	\$7,849,029	\$47,349,677	\$427,855,909	\$19,993,768	\$382,438,113	1
6,705	3,254,063	44	14,588	18	2,512	1,483,005	2,423	106,929	1,340,122	28,131	6,059,515	5,925,591	133,924	13,975,268	2
223	80,351	143	30,816			31,594	4,434	2,700	24,450		565,091	559,134	5,957	831,920	3
4	2,000	3	450			1,149	940	9	200		1,277	1,235	42	8,600	4
6	3,216					2,279	1,380	20	879		5,744	5,659	85	23,820	5
124	64,005	120	33,671			88,977	9,103	2,229	26,320	1,325	278,082	276,535	2,547	556,977	6
58	25,000	146	29,940			79,173	1,675	1,104	76,394		386,830	385,005	1,825	1,030,033	7
110	44,402	108	28,521			28,895	4,694	1,824	17,437		510,587	503,807	6,780	719,431	8
63	28,392	43	10,685	5	576	85,055	7,476	1,198	26,331		227,647	223,921	3,726	467,111	9
203	76,352	54	11,854	17	2,001	6,836	2,639	805	3,556		46,177	44,750	1,427	136,486	10
91	48,157			1	160	38,028	3,276	1,782	32,972		687,909	635,097	2,812	836,376	11
292	129,889	5	1,366	14	1,386	58,366	40,052	2,745	15,249	320	261,883	254,019	7,864	714,997	12
2,340	993,218	40	18,843			247,332	13,756	16,491	217,085		2,251,953	2,194,371	56,987	4,099,980	13
21	11,880					3,946	1,941	25	1,930		26,101	26,086	65	57,546	14
4	1,622	15	3,602			432	43	670	37,110		38,620	33,439	181	55,700	15
2,036	959,007			21	2,397	199,953	131,150	22,505	37,110	8,293	1,297,069	1,199,972	97,997	5,014,908	16
212	109,073	172	42,794	13	2,177	52,537	20,303	1,358	17,413	18,453	170,935	165,995	4,940	549,175	17
39	16,700	3	800			4,150	1,630	380	2,140		227,156	225,104	2,052	307,050	18
5	2,535			1	150	1,127	434	3	190		3,795	3,795	4	17,900	19
559	238,285	6	1,835	4	608	102,904	86,520	4,411	10,800	1,143	440,687	430,436	10,201	1,405,676	20
7,289	2,709,382	4,781	1,175,153	648	105,209	637,537	77,084	28,256	532,125	72	11,074,008	11,025,493	48,515	17,920,854	21
168	75,952	11	3,250	1	112	40,897	8,582	4,342	26,978		501,553	497,372	3,681	829,513	22
227	86,566	289	63,892	1	184	27,756	6,232	1,951	19,578		339,902	332,691	7,211	645,133	23
369	162,785	1,086	214,824	19	3,947	89,919	30,851	2,327	56,242		619,968	608,969	10,969	1,408,030	24
1,018	369,347	41	5,755	58	7,845	97,832	16,959	5,918	74,523	432	1,207,686	1,195,671	12,015	1,965,293	25
955	389,350	26	5,755			79,025	12,082	5,762	61,837	194	783,380	783,455	19,896	1,533,174	26
319	180,416	15	4,905			63,837	3,524	2,231	58,132		255,145	250,629	4,516	760,200	27
2,777	1,371,120	645	141,557	97	16,664	563,399	179,724	36,440	347,235		5,427,110	5,275,244	151,866	9,857,288	28
6,240	1,948,024	6	1,086	107	17,861	337,959	28,507	35,845	264,306	9,211	931,676	906,136	775,540	4,629,587	29
1,437	715,410					418,397	210	9,733	258,454	150,000	2,051,782	2,010,580	41,152	4,554,132	30
810	289,571	171	32,978	13	1,817	152,161	14,781	6,614	58,534	72,232	976,864	966,730	10,134	1,876,136	31
29	10,504	40	7,140	3	624	5,701	1,470	68	4,163		20,946	20,151	795	58,873	32
5,234	2,917,349	3	700	5	910	1,990,490	51,112	15,220	111,793	1,312,365	6,916,660	6,900,651	16,009	14,046,476	33
63	25,825	46	9,840	11	1,322	3,839	4,686	497	3,706		45,201	42,854	2,347	170,342	34
4,421	1,707,926	97	20,686	11	1,410	347,458	15,961	28,630	298,576	4,201	4,027,295	3,962,315	64,980	7,186,271	35
737	322,030	50	11,550			212,219	3,232	6,000	202,847		571,614	558,512	13,102	1,342,525	36
7,051	3,310,330	199	55,621	24	3,599	313,400	120,153	73,176	610,761	9,310	3,262,052	3,164,736	97,266	15,919,173	37
11,520	6,082,123	14	4,924			391,581	1,350	58,321	327,558	4,352	5,963,808	5,832,049	111,759	12,975,182	38
229	137,385					13,471	2,000	2,014	9,457		93,617	87,497	6,120	249,289	39
1,800	860,799	5	1,212			45,450	2,170	13,876	29,404		2,791,908	2,755,419	36,489	3,942,372	40
273	151,790	2	1,020			11,138	1,800	18	6,320	3,000	230,975	227,755	3,220	537,745	41
87	22,895					6,702	40	22	6,640		2,601	2,601		40,432	42
4	1,440	3	712			894	160	124	610		3,781	3,626	155	16,745	43
376	186,621	11	2,913	2	270	35,214	6,865	5,205	22,334	260	3,054,761	3,016,495	38,269	3,805,996	44
583	333,063	24	7,000	2	269	157,810	7,587	16,744	132,877	602	2,033,721	1,988,078	95,643	3,576,200	45
15	5,582	8	1,392			12,445	1,196	84	10,965	200	33,188	32,783	405	101,667	47
81	15,699					1,927	1,362	25	540		339	129	210	22,000	48
8,027	1,611,998	2,116	527,772	47	6,441	1,001,394	338,911	20,463	129,133	518,347	3,411,166	3,376,592	34,574	8,954,372	49
1,980	1,061,551	4,365	1,063,058	176	19,010	2,044,440	157,002	32,057	409,270	1,446,111	9,112,231	9,075,429	36,802	16,593,824	50
88	16,128	140	35,240	1	200	6,036	3,864	39	2,133		14,221	13,110	1,111	94,268	51

TABLE 7.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
52 Clothing, women's, dressmaking	767	\$322,632	\$36,455	\$51,524	\$56,376	\$168,177	872	26	\$19,487	2,027	\$529,616
53 Clothing, women's, factory product	126	2,865,851	30,055	140,870	173,376	2,521,550	159	348	384,277	4,817	1,618,355
54 Coffee and spice, roasting and grinding	26	2,375,838	87,807	288,750	296,982	1,702,299	18	273	208,035	678	229,703
55 Coffins, burial cases, and undertakers' goods	14	2,078,415	170,725	367,533	295,354	1,239,253	11	117	138,427	934	410,164
56 Coke	5	84,600	4,100	3,770	72,030	4,730		14	18,760	71	32,710
57 Confectionery	285	1,806,148	135,780	192,466	329,487	1,148,415	329	283	201,218	1,730	545,880
58 Coopers	163	1,587,151	144,166	132,154	304,254	916,577	186	68	77,205	1,703	692,278
59 Cordage and twine	9	2,147,677	65,415	272,751	624,270	1,185,241	2	47	54,205	1,052	317,909
60 Corsets	10	8,450		200	2,700	5,800	10	1	260	33	8,478
61 Cotton goods	3	168,492	700	21,600	56,813	89,879	1	12	11,250	106	27,861
62 Cutlery and edge tools	24	1,114,745	87,200	158,475	233,892	630,178	19	102	107,802	763	375,433
63 Druggists' preparations, not including prescriptions	12	745,633	30,000	60,000	60,800	604,733	24	150	175,729	269	73,921
64 Dyeing and cleaning	132	235,435	78,095	51,510	59,334	42,996	151	24	10,850	326	132,639
65 Electrical apparatus and supplies	64	7,036,103	239,787	1,338,168	2,031,368	3,376,730	29	394	399,202	3,773	1,502,270
66 Electrical construction and repairs	56	189,670	2,100	3,000	39,158	145,412	69	25	18,718	310	142,460
67 Electroplating	23	116,933	20,000	23,800	49,775	23,358	25	8	4,948	172	74,467
68 Enameling and enameled goods	6	303,276	9,000	58,813	98,363	142,100	4	11	13,966	466	146,325
69 Engraving and diesinking	17	38,955	6,000	10,500	13,775	8,660	23			27	14,062
70 Engraving, steel, including plate printing	15	62,605	1,500	200	27,090	33,816	14	13	9,060	112	48,185
71 Engraving, wood	12	31,820	600	1,000	8,445	21,785	15	5	3,444	57	31,743
72 Explosives	9	1,972,451	315,000	365,786	373,030	918,665	3	56	92,520	352	178,786
73 Fancy articles, not elsewhere specified	21	158,342	2,900	14,541	53,511	87,390	23	18	10,579	185	57,554
74 Fertilizers	27	1,887,937	98,762	273,879	346,003	1,179,293	26	80	103,608	400	173,888
75 Files	9	219,079	4,400	45,458	85,719	80,502	13	4	4,200	308	119,431
76 Fireworks	6	131,100	6,000	25,600	16,200	83,300	1	18	24,400	342	92,680
77 Fish, canning and preserving	3	56,068	200	1,025	42,943	11,900	3	5	4,160	51	21,600
78 Flags and banners	3	103,734	20,000	30,000	14,757	38,977	1	15	12,540	161	35,448
79 Flavoring extracts	19	191,315	12,625	24,600	19,460	134,630	21	53	74,992	117	38,146
80 Flouring and grist mill products	1,150	12,531,150	863,866	2,811,132	4,584,325	4,271,827	1,621	342	302,791	2,438	1,220,398
81 Food preparations	31	5,185,405	121,517	1,641,139	1,655,037	1,767,412	34	69	72,865	1,100	365,950
82 Foundry and machine shop products	861	68,766,347	4,296,587	9,178,722	16,039,137	39,251,901	760	3,539	3,724,946	41,799	20,563,268
83 Foundry supplies	5	140,440	12,000	16,500	33,200	78,740	2	24	29,056	32	38,234
84 Fruits and vegetables, canning and preserving	70	910,670	65,490	150,973	200,057	494,150	83	103	58,975	1,608	305,393
85 Fur goods	19	129,782			5,007	124,775	24	11	3,442	122	48,131
86 Furnishing goods, men's	15	185,500	3,000	7,000	20,400	155,100	25	161	49,549	396	87,411
87 Furniture, cabinetmaking, repairing, and upholstering	303	542,013	60,055	85,835	97,460	298,633	349	51	41,411	605	297,541
88 Furniture, factory product	165	9,585,848	969,385	1,893,960	1,343,305	5,378,698	183	671	573,140	6,723	2,621,895
89 Gas and lamp fixtures	13	490,441	7,000	50,500	95,249	277,692	10	56	48,379	488	158,214
90 Gas and oil stoves	10	2,563,374	143,238	383,389	437,271	1,596,976	4	100	135,748	1,557	706,506
91 Gas, illuminating and heating	73	25,017,057	2,503,885	3,258,561	17,029,003	2,225,658		233	277,204	1,389	601,815
92 Gas machines and meters	7	281,364	22,633	12,511	48,345	198,375	5	26	27,758	121	94,612
93 Glass	28	5,451,513	440,375	1,310,859	1,491,631	2,208,648	9	199	249,029	4,546	2,067,384
94 Glass, cutting, staining, and ornamenting	21	109,441			26,350	82,591	28	13	11,754	184	91,545
95 Gloves and mittens	10	163,491	2,100	4,900	63,475	93,016	15	3	2,700	173	55,247
96 Grease and tallow	18	366,152	48,550	61,435	100,729	155,438	19	8	8,365	106	56,314
97 Grindstones	20	674,014	254,320	117,495	112,449	180,750	4	50	50,500	1,023	356,168
98 Hairwork	24	38,531	4,200	4,500	2,330	27,501	26	11	4,257	67	18,722
99 Hand knit goods	4	3,815	200	300	1,075	2,240	4			7	1,720
100 Hand stamps	15	20,160		100	9,500	10,500	13	1	120	35	17,958
101 Hardware	30	2,668,500	138,777	461,826	608,037	1,359,800	22	130	141,279	2,682	1,086,405
102 Hardware, saddlery	7	381,816	20,125	69,650	55,465	236,576	5	42	39,796	315	125,093
103 Hats and caps, not including fur hats and wool hats	26	337,220	3,120	9,415	61,269	263,416	39	39	31,459	656	223,549
104 Hosiery and knit goods	24	1,067,937	40,320	77,046	323,058	626,613	24	56	55,356	1,413	354,369
105 House furnishing goods, not elsewhere specified	18	1,395,652	52,900	233,957	444,934	658,811	11	54	68,230	493	159,510
106 Ice, manufactured	42	1,777,430	180,742	397,900	1,012,707	186,081	17	79	58,410	299	154,561
107 Ink, printing	4	185,583	4,000	11,200	30,114	140,269		19	30,100	86	19,354
108 Instruments, professional and scientific	11	95,317	6,000	12,000	27,049	50,263	14	15	5,804	67	28,925
109 Iron and steel	107	85,623,552	5,578,396	14,063,733	33,127,902	32,756,521	17	1,231	1,592,501	33,677	19,730,469
110 Iron and steel, bolts, nuts, washers, and rivets	11	933,384	53,363	113,733	237,513	523,770	8	69	99,472	1,715	691,611
111 Iron and steel, forgings	11	2,177,894	188,766	373,939	709,844	905,345	6	61	97,830	1,154	564,412
112 Iron and steel, nails and spikes, cut and wrought, including wire nails	3	536,230	30,000	35,000	179,011	292,269		17	21,113	285	125,908
113 Iron and steel, pipe, wrought	3	2,402,062	107,499	674,024	1,034,864	655,675		29	35,935	740	300,353
114 Ironwork, architectural and ornamental	47	2,484,771	260,229	329,321	515,449	1,379,172	39	253	247,182	1,674	738,153
115 Japanning	5	11,625	5,000	3,000	1,400	2,225	7			11	4,224
116 Jewelry	28	664,348			61,360	602,988	37	36	25,330	249	133,445
117 Kaolin and other earth grinding	10	233,980	32,100	55,000	70,000	76,880	9	12	9,160	129	44,500
118 Kindling wood	3	2,325	500	550	2,825	12,950	2			7	2,175
119 Labels and tags	4	36,050			23,500	12,550	4	7	8,196	21	9,853
120 Lamps and reflectors	11	317,894	26,428	31,000	60,733	199,708	9	33	19,900	227	83,019
121 Leather goods	11	427,625	11,550	97,465	83,250	235,360	11	28	17,492	265	91,953

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
94	\$50,340	1,926	\$478,538	7	\$748	\$101,920	\$81,822	\$1,786	\$17,889	\$978	\$440,812	\$481,938	\$8,374	\$1,618,889	52
1,945	687,558	3,468	829,544	9	1,258	467,188	74,922	8,062	154,157	230,047	4,449,451	4,427,977	21,474	7,772,771	53
230	129,976	448	105,727			128,788	18,289	18,734	95,718		4,708,865	4,686,701	22,154	5,849,644	54
802	368,658	182	44,606			181,926	5,525	11,085	115,216		892,388	872,068	9,675	1,800,851	55
71	32,710					2,924	220	780	1,924		138,296	188,284	12	255,129	56
748	335,946	951	205,282	31	4,661	421,540	91,249	9,201	320,990	100	2,547,081	2,618,115	28,916	4,927,778	57
1,689	688,183	4	1,600	10	2,615	67,705	10,297	8,949	45,789	1,670	1,329,769	1,321,898	8,371	2,517,871	58
725	255,095	315	60,786	12	2,048	96,471	1,151	10,174	85,146		2,325,907	2,304,992	20,915	2,857,674	59
		32	8,828	1	150	2,594	1,916	62	546		12,263	12,082	221	35,056	60
24	11,482	82	16,879			17,812	4,844	1,728	11,240		142,090	139,295	2,795	281,045	61
714	359,238	47	15,900	2	295	66,408	8,115	4,465	58,266	562	460,825	439,057	21,768	1,104,438	62
150	49,472	117	24,085	2	364	63,192	7,354	2,668	58,175		848,352	844,674	3,678	1,018,520	63
187	94,084	185	38,065	4	540	49,707	25,618	2,443	18,836	3,810	69,236	60,668	8,568	428,771	64
2,936	1,315,376	794	181,569	23	5,325	568,201	148,966	24,880	391,900	2,465	3,388,978	3,129,662	209,316	6,504,847	65
299	139,142	7	2,584	4	734	34,098	14,305	877	18,836	80	420,094	417,750	2,344	893,300	66
109	73,167	8	1,800			11,732	5,263	1,201	5,268		38,531	34,404	4,127	179,874	67
237	105,428	179	40,897			35,878	1,375	1,237	33,266		289,041	277,464	11,577	527,825	68
26	18,958			1	104	3,607	2,564	269	674	100	7,967	7,277	673	45,743	69
83	42,228	29	5,907			11,967	6,527	167	5,278		42,205	41,069	1,137	160,108	70
55	31,535			2	208	5,518	2,303	112	2,746	357	10,176	9,961	215	88,583	71
350	178,286	2	500			103,766	1,110	9,198	92,748	700	778,269	749,101	24,168	1,330,489	72
115	39,333	70	18,221			32,631	6,078	743	25,415	400	138,279	138,205	2,074	298,141	73
394	171,768	5	2,000	1	120	112,317	1,044	3,626	107,447	200	1,016,501	996,158	20,348	1,657,058	74
255	108,181	53	11,250			4,068	1,771	942	1,350		104,183	95,728	8,455	257,330	75
185	60,000	157	32,680			30,118	614	849	28,650		62,549	61,137	1,412	277,050	76
51	21,600					2,610	1,400	110	1,100		70,406	69,896	510	251,040	77
42	16,006	118	19,274	1	168	5,427	1,200	1,051	3,176		32,685	31,824	1,361	172,113	78
50	22,969	67	15,177			38,365	6,176	1,160	30,629	500	299,459	297,397	2,062	546,891	79
2,893	1,209,466	41	10,547	4	385	626,642	36,651	111,915	478,068	8	31,826,750	31,474,103	352,647	37,890,367	80
651	278,463	389	80,186	60	7,801	390,651	8,593	8,593	373,505	8	5,358,560	5,324,278	29,282	7,166,532	81
41,867	20,467,834	359	81,365	73	14,079	4,806,682	277,802	302,853	3,715,217	511,310	31,578,984	30,465,709	1,113,225	72,399,632	82
80	37,704			2	470	7,594	3,530	1,179	12,885		135,225	128,225	6,800	260,277	83
581	158,919	841	128,826	186	22,648	73,781	4,834	5,486	63,461		1,197,269	1,183,281	13,988	1,941,398	84
33	23,547	87	24,338	2	246	28,640	14,011	509	13,320	800	142,188	141,842	341	291,321	85
68	25,870	333	61,541			35,292	5,193	710	29,389		372,665	370,624	2,041	702,732	86
551	284,060	43	11,591	11	1,890	66,004	37,654	3,651	21,144	3,555	491,314	484,328	6,986	1,219,289	87
6,400	2,566,938	230	42,004	93	12,958	562,295	69,151	62,494	418,573	22,137	4,042,083	3,975,612	66,471	9,514,764	88
285	116,019	223	42,195			46,612	6,255	2,002	33,355	5,000	248,641	242,787	5,854	591,449	89
1,556	706,108	1	400			149,778	930	138,479	138,479		1,322,686	1,292,686	29,991	2,535,328	90
1,887	601,095	2	720			687,927	3,750	243,750	440,418		884,587	852,110	32,477	3,931,423	91
121	94,612					12,995	4,860	1,030	7,105		174,985	173,625	1,310	370,623	92
3,595	1,844,958	405	96,017	636	126,409	155,512	68	17,260	138,184		1,253,164	1,003,759	249,405	4,547,083	93
172	89,121	12	2,424			12,381	9,426	428	2,527		76,613	74,468	2,160	242,869	94
35	14,276	142	40,858	1	113	5,595	1,855	181	3,459	100	140,485	139,415	1,020	253,400	95
105	56,214			1	100	16,973	794	3,618	12,561		772,328	772,014	15,314	925,626	96
1,024	355,518			4	650	25,686	2,086	4,398	17,092	1,560	207,011	172,676	34,335	906,459	97
3	1,940	64	16,782			13,035	10,432	516	2,637		27,134	26,832	302	89,126	98
2	650	6	1,070			685	538	4	83	10	2,728	2,708	25	4,469	99
27	15,862	6	1,810	2	286	5,838	3,638	209	1,812	224	10,096	9,603	493	58,995	100
2,437	1,037,594	135	31,575	90	16,996	275,800	12,208	12,986	250,606		1,069,278	992,218	77,060	2,926,693	101
809	123,838	6	1,260			55,918	800	2,950	25,768	26,400	201,621	187,797	13,824	489,186	102
286	130,308	856	90,701	14	2,540	52,013	16,832	1,492	38,639		572,847	565,490	7,357	1,003,840	103
154	74,125	1,229	275,817	30	4,927	99,411	14,707	3,338	54,015	27,351	807,673	797,375	10,298	1,576,285	104
449	140,858	41	9,038	3	564	46,134	3,400	8,806	33,868		805,832	794,022	11,810	1,394,326	105
297	154,411			2	150	71,065	1,558	20,189	48,783	585	138,185	48,657	89,478	582,538	106
86	19,854					11,099	2,600	694	7,805		96,611	94,811	1,800	221,429	107
61	27,551	6	1,374			7,495	2,762	706	4,027		22,403	21,179	1,224	95,690	108
33,499	19,695,032	129	24,468	49	10,969	4,400,859	88,862	223,255	4,061,755	27,987	91,829,307	80,545,325	10,788,982	138,985,259	109
1,424	634,685	58	11,926	233	45,000	69,005	7,005	6,120	55,280		1,747,510	1,693,406	49,105	2,799,866	110
1,144	561,292	10	3,120			54,088	3,565	6,744	43,779		1,220,821	1,129,571	91,250	2,836,727	111
226	105,069	57	19,776	2	1,063	37,216	4,200	1,573	31,443		568,446	553,467	9,979	868,127	112
740	300,353					28,697	2,556	26,141			1,455,224	1,399,658	55,566	2,211,032	113
1,612	724,268	60	13,570	2	315	298,366	12,935	14,400	243,531	28,000	2,351,236	2,317,308	33,928	4,151,943	114
9	3,940			2	284	1,197	720	103	374		3,799	3,220	579	16,650	115
211	123,051	33	9,924	5	470	53,839	13,937	1,241	23,061	15,600	527,374	524,107	3,267	907,776	116
127	44,190	2	400			28,848	585	961	27,802		87,673	75,664	12,009	250,023	117
4	1,621			3	554	620	320	25	275		1,013	883	130	5,470	118
13	7,944	7	1,699	1	200	16,949	1,901	94	2,954	12,000	21,475	20,877	593	89,344	119
211	80,256	11	1,803	5	960	94,670	1,715	1,983	20,179	70,813	170,589	168,121	2,468	454,180	120
205	82,704	48	8,429	12	820	54,950	2,440	1,795	50,715		222,016	216,952	5,064	379,737	121

TABLE 7.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
122 Leather, tanned, curried, and finished.	58	\$5,822,580	\$207,860	\$890,006	\$279,804	\$4,644,910	76	74	\$80,680	1,884	\$617,400
123 Lime and cement	94	8,862,615	1,222,732	549,148	693,828	896,907	87	160	181,735	1,619	700,842
124 Liquors, distilled	26	8,000,277	136,000	438,610	305,276	2,120,392	29	64	85,727	335	179,157
125 Liquors, malt	112	26,822,896	3,584,894	8,592,805	5,651,174	9,014,523	81	547	879,010	3,464	2,292,652
126 Liquors, vinous	52	1,621,836	81,235	307,745	238,999	993,887	49	58	49,269	179	68,163
127 Lithographing and engraving	19	2,771,946	57,513	205,500	1,148,055	1,360,378	10	230	277,336	1,673	835,487
128 Lock and gun smithing	105	68,577	12,550	5,480	26,919	28,628	116			52	21,441
129 Looking-glass and picture frames	125	811,337	121,630	180,950	89,966	413,791	152	74	67,832	691	282,372
130 Lumber and timber products	2,054	13,741,418	3,071,577	989,681	3,237,233	6,462,927	2,800	865	303,421	8,539	3,293,668
131 Lumber, planing mill products, including sash, doors, and blinds.	354	7,493,314	902,774	978,193	1,489,046	4,173,301	435	484	855,979	4,696	2,169,264
132 Malt	14	1,853,054	214,390	327,107	84,708	731,854	18	22	32,112	185	85,995
133 Marble and stone work	133	1,949,635	575,542	186,523	590,929	596,636	160	120	103,033	1,339	860,258
134 Masonry, brick and stone	441	1,489,846	83,885	82,300	301,927	1,021,234	565	99	77,316	4,006	2,198,930
135 Mattresses and spring beds	40	332,714	18,920	27,780	58,364	227,700	49	49	35,657	451	167,799
136 Millinery and lace goods	20	220,803	10,000	57,500	20,760	132,544	30	19	12,050	392	96,489
137 Millinery, custom work	1,231	1,697,807	159,847	260,230	74,842	1,202,888	1,445	276	86,707	2,306	603,478
138 Mineral and soda waters	112	652,730	92,800	84,485	255,795	219,656	130	68	46,193	328	152,239
139 Mirrors	5	243,887	9,200	26,000	72,876	136,312	4	12	11,100	128	54,057
140 Models and patterns	65	234,043	8,568	30,550	31,720	113,205	80	11	10,332	320	170,072
141 Monuments and tombstones	241	885,651	134,207	117,708	84,233	549,403	301	98	57,739	628	304,628
142 Mucilage and paste	12	27,310	4,150	4,575	2,175	16,410	15	1	600	26	3,207
143 Musical instruments and materials, not specified.	16	150,436	50,000	50,000	6,617	43,819	13	5	2,760	40	19,748
144 Musical instruments, organs and materials.	6	70,523	9,800	12,500	7,870	49,353	7	9	1,980	46	23,954
145 Musical instruments, pianos and materials.	12	1,269,913	83,260	232,837	110,301	338,415	13	44	59,232	725	333,639
146 Oil, linseed	7	1,937,221	405,000	227,000	443,000	907,221		25	48,560	147	76,044
147 Oil, not elsewhere specified	15	711,805	11,800	25,641	66,575	607,789	12	143	143,424	93	44,864
148 Optical goods	17	51,655			12,008	39,647	16	3	920	54	27,071
149 Painting, house, sign, etc	837	880,950	87,233	126,313	156,537	510,797	1,062	85	56,020	2,535	1,333,895
150 Paints	45	4,306,499	490,596	474,905	433,921	2,907,077	41	395	470,581	733	330,746
151 Paper and wood pulp	51	7,872,913	919,935	1,585,571	2,661,501	2,703,906	19	196	277,934	3,134	1,113,040
152 Paper goods, not elsewhere specified	14	1,066,431	41,500	143,119	238,975	592,837	11	49	76,350	744	244,439
153 Paper hanging	147	429,232	9,535	21,920	34,333	363,444	167	72	47,330	527	233,300
154 Paper hangings	3	132,789	10,726	16,000	23,412	83,651	3	11	8,596	70	27,330
155 Patent medicines and compounds	133	2,163,037	89,500	133,205	165,239	1,720,043	153	249	240,739	560	193,705
156 Paving and paving materials.	192	1,446,477	161,938	117,099	466,115	711,415	221	141	97,578	2,616	1,149,397
157 Pens, fountain and stylographic	4	25,540	350	600	9,350	15,240	6	3	1,669	43	16,515
158 Perfumery and cosmetics	8	64,652	300	200	5,926	58,226	6	13	12,000	40	14,795
159 Petroleum, refining	9	10,912,818	856,225	923,690	4,824,427	4,303,476	2	217	234,209	1,003	551,602
160 Photographic materials	5	10,100			3,600	6,500	6			15	4,756
161 Photography	488	603,123	32,430	62,325	236,076	227,292	547	44	18,592	431	202,932
162 Photolithographing and photoengraving.	18	117,064	9,800	13,200	51,014	33,050	14	36	25,623	200	97,315
163 Pickles, preserves, and sauces	27	519,490	13,860	131,025	79,795	294,810	30	45	61,134	354	132,430
164 Plastering and stuccowork	207	196,211	22,867	26,403	65,156	81,775	236	5	4,120	559	325,410
165 Plated and britannia ware	3	203,374	62,304	62,304	33,399	63,671	1	15	22,416	244	115,313
166 Plumbers' supplies	18	789,786	29,337	43,463	160,222	551,159	12	91	107,474	573	242,047
167 Plumbing, and gas and steam fitting	612	2,056,463	163,038	172,900	254,614	1,476,911	737	233	143,838	2,794	1,540,533
168 Pottery, terra cotta, and fire-clay products.	248	15,563,969	1,930,872	5,215,460	2,776,469	5,591,168	225	318	765,915	11,870	5,000,346
169 Printing and publishing, book and job.	410	6,330,456	154,120	642,979	3,553,699	1,974,658	453	568	492,547	4,613	2,171,241
170 Printing and publishing, music	6	192,733			14,550	173,233	4	29	24,559	43	22,870
171 Printing and publishing, newspapers and periodicals.	837	11,327,865	651,805	1,103,321	5,537,691	4,014,433	863	1,456	1,277,427	6,360	3,119,696
172 Printing materials	3	16,975			10,600	6,375	3	1	416	10	5,216
173 Pumps, not including steam pumps	30	115,656	7,935	7,450	14,065	86,156	35	13	11,617	83	35,207
174 Regalia and society banners and emblems.	11	923,734	51,074	134,460	70,434	667,716	14	146	119,859	813	199,350
175 Registers, cash	5	4,922,869	49,612	438,547	438,563	3,956,133	1	296	302,835	1,919	1,173,640
176 Roofing and roofing materials.	307	1,956,960	162,231	242,766	309,323	1,241,722	370	140	114,338	1,244	551,634
177 Rubber and elastic goods	19	5,939,129	305,369	624,633	900,991	4,137,136	17	313	305,449	3,505	1,281,033
178 Saddlery and harness	850	3,203,133	325,555	531,200	310,732	2,034,622	952	203	167,023	2,229	863,330
179 Safes and vaults	10	3,560,773	130,000	419,320	1,054,337	1,927,021	2	124	141,056	1,327	673,366
180 Salt	10	790,341	76,047	263,400	303,000	142,394	3	48	42,218	673	243,397
181 Sausage	6	40,550	10,300	21,150	5,000	4,100	6			19	11,150
182 Saws	11	326,301	24,525	32,232	105,946	163,593	14	22	18,995	165	73,857
183 Scales and balances	5	291,777	7,000	7,000	77,000	202,777	1	44	36,037	315	153,319
184 Screws, wood	3	1,209,500	70,000	255,000	450,000	424,500	40	59	59,727	635	187,300
185 Sewing machine repairing	20	16,620	3,300	2,200	3,300	7,730	23	6	3,652	17	7,473
186 Sewing machines and attachments	5	3,404,137	96,000	323,660	632,420	2,237,057		157	208,094	1,306	739,621
187 Ship and boat building, wooden	31	233,940	90,050	95,830	52,735	105,225	37	14	9,445	363	161,123
188 Shirts	53	302,392	1,300	5,300	36,740	258,352	71	36	38,370	733	175,136
189 Shoddy	6	1,397,746	120,500	133,000	403,700	730,546		35	55,225	474	164,373
190 Show cases	9	80,309	12,800	8,100	19,235	40,174	13	12	9,150	100	60,917
191 Slaughtering and meatpacking, wholesale.	60	5,224,226	274,665	633,071	432,606	3,778,884	76	313	260,001	1,700	776,238

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1,384	\$617,400					\$160,815	\$3,000	\$15,488	\$109,706	\$32,031	\$3,774,298	\$3,745,759	\$28,539	\$5,182,065	122
1,602	697,099	7	\$1,409	10	\$1,348	117,888	12,391	13,766	113,847	7,854	1,082,664	709,059	373,605	2,709,481	123
817	174,798	12	3,868	6	491	9,622,588	5	15,550	9,607,028		1,438,507	1,860,966	77,541	12,417,268	124
8,420	2,284,958	5	852	39	6,842	8,101,240	12,120	217,484	7,874,686		4,277,812	3,895,656	382,156	18,522,689	125
170	67,227	8	756	1	180	69,718	4,310	7,154	67,764		428,879	419,032	9,847	801,684	126
1,862	761,944	314	73,183	2	340	159,870	28,313	9,824	117,587	4,146	1,100,668	1,085,235	15,428	2,781,956	127
48	20,564	3	775	1	102	12,639	10,047	5,519	2,063	10	24,661	22,370	2,291	126,478	128
627	268,400	37	10,566	27	3,406	82,755	23,039	6,337	52,379	400	482,153	474,515	7,638	1,114,220	129
8,402	3,274,682	79	16,506	58	7,680	508,502	57,272	81,052	370,238		11,286,045	11,285,923	10,122	20,790,854	130
4,651	2,160,825	24	5,416	21	8,023	468,548	52,391	59,897	277,083	79,172	6,549,648	6,479,537	70,111	11,066,671	131
135	85,995					61,019	10,908	8,811	41,300		915,422	877,686	37,736	1,166,268	132
1,828	866,533	5	1,500	6	1,225	141,229	25,300	10,081	90,735	15,063	610,779	557,440	53,339	2,071,249	133
4,005	2,198,833	1	147	1	147	1,013,913	15,255	4,933	51,941	941,779	2,676,404	2,653,926	22,478	7,148,193	134
305	116,735	144	41,961	2	200	48,961	13,811	2,030	33,060		583,932	578,844	5,088	985,990	135
48	23,267	349	73,222			18,821	9,535	801	6,878	1,612	324,459	322,944	1,515	547,540	136
14	6,442	2,368	595,087	14	1,869	352,993	243,347	14,935	87,671	7,040	2,505,821	2,487,632	18,189	4,756,039	137
317	149,276	5	1,781	6	1,232	108,908	13,886	5,460	89,562		773,959	766,705	17,251	1,781,684	138
150	51,579	6	2,250	2	228	12,676	2,680	410	9,586		282,928	279,939	2,989	387,417	139
316	168,902	4	1,170			19,153	9,136	1,140	7,127	1,750	76,432	70,519	5,918	406,624	140
525	303,473	3	1,055			86,938	16,201	7,163	42,307	21,262	1,063,653	1,056,581	7,072	1,928,217	141
17	6,901	8	1,206	1	100	1,934	990	231	613	100	15,806	15,469	337	46,931	142
35	13,840	5	1,403			14,799	2,736	310	10,358	1,400	21,332	20,963	369	70,219	143
45	23,804	1	150			3,892	220	335	3,337		22,115	21,400	715	63,406	144
704	328,202	21	10,437			115,287	6,027	5,350	103,910		637,621	679,463	8,158	1,387,454	145
147	76,044					72,931		6,074	66,857		2,888,681	2,870,132	18,549	3,114,655	146
93	44,864					13,911	7,589	1,366	123,597	1,359	800,516	881,654	8,862	1,505,889	147
43	24,856	8	2,332	3	483	9,675	6,037	281	3,307		42,802	41,256	1,046	121,695	148
2,512	1,329,044	13	2,891	10	1,937	139,537	60,891	4,933	62,948	4,722	1,053,290	1,048,080	5,210	3,570,218	149
635	303,493	93	33,253			618,050	23,576	32,090	502,334	60,000	3,201,558	3,168,453	36,105	6,165,001	150
2,542	971,232	629	143,630	13	3,178	479,336	5,508	40,881	432,997		3,768,572	3,283,277	485,295	6,543,513	151
482	181,961	312	62,478			60,791	5,122	3,850	51,819		1,333,209	1,358,029	25,180	2,691,494	152
493	278,469	34	9,539	3	332	56,082	36,485	1,941	17,256	400	464,743	466,487	2,250	1,155,400	153
58	28,482	12	2,400			9,441	312	8,400	3,400		57,886	56,066	1,820	117,472	154
261	127,362	293	70,751	6	592	1,232,904	27,727	7,458	1,198,619	4,100	1,033,899	1,022,818	11,021	3,673,040	155
2,633	1,147,317			13	2,030	102,402	18,912	6,292	68,329	13,863	1,416,227	1,332,226	24,001	3,305,701	156
27	12,495	15	3,700	1	320	2,964	1,400	37	1,527		22,189	21,774	416	52,000	157
10	7,237	30	7,523			35,082	1,905	218	33,375		62,685	62,477	208	155,826	158
905	541,261	43	10,491			620,061	4,747	58,653	561,269	400	6,177,048	5,851,457	325,591	8,306,977	159
8	8,942	7	1,414			3,435	700	111	2,371	250	9,799	9,491	303	32,025	160
279	146,141	191	53,937	11	1,594	141,390	98,715	4,440	36,879	1,356	365,104	355,632	9,422	1,270,195	161
181	91,059	18	6,156	1	100	15,682	5,240	579	7,313	2,560	46,872	44,079	2,793	232,297	162
169	87,898	185	44,532			131,652	7,145	8,011	119,936	1,500	731,301	728,317	5,887	1,305,249	163
563	323,261			1	149	16,132	6,403	1,152	7,245	1,332	805,371	804,485	886	905,797	164
239	113,463	6	1,850			11,293	1,380	1,236	8,152	440	144,894	142,993	1,866	324,766	165
577	241,627	1	523			53,337	13,022	8,698	37,547	1,100	622,748	611,310	11,438	1,204,765	166
2,772	1,586,110	4	1,145	13	3,295	222,009	112,443	12,465	83,381	13,810	3,466,857	3,440,789	26,068	6,743,144	167
9,621	4,458,264	2,148	527,777	101	19,805	691,391	21,694	80,224	562,536	27,137	3,229,385	2,260,395	968,990	11,851,225	168
3,413	1,856,283	1,132	304,830	63	10,123	823,070	157,826	31,160	397,570	236,514	2,749,600	2,674,970	74,630	7,941,570	169
82	19,908	6	1,960	10	1,402	135,000	2,400	3,172	77,433	51,945	23,761	23,370	391	260,658	170
4,907	2,784,987	1,149	300,146	394	31,433	1,733,236	184,766	60,616	1,133,319	33,105	2,883,006	2,779,464	108,542	12,189,640	171
10	5,216					1,947	1,385	30	532		14,432	14,320	112	34,000	172
33	35,307					7,773	3,519	653	3,603		90,064	89,067	997	193,335	173
222	89,561	531	110,081	2	208	228,707	8,922	7,330	207,215	300	929,173	924,702	4,471	1,624,065	174
1,788	1,109,404	181	64,240			903,981	2,379	7,423	894,182		857,749	823,959	28,790	5,414,711	175
1,133	549,635	5	1,112	6	833	132,067	33,978	10,659	85,638	2,392	2,904,347	2,880,979	17,368	4,624,810	176
2,576	1,025,815	905	219,658	24	5,565	305,446	3,110	35,217	264,079	40	4,737,294	4,650,270	106,934	7,330,104	177
1,849	780,910	340	70,145	40	6,275	224,243	78,912	24,084	130,867	390	2,933,855	2,930,728	23,127	5,111,345	178
1,319	677,410			8	1,456	125,668	7,730	10,949	106,989		1,133,010	1,102,437	20,573	2,407,635	179
543	215,975	133	27,102	2	320	93,342	6,650	85,709	724,686	977	149,239	149,239	818,200	180	
19	11,150					1,434	144	438	832		79,398	78,366	1,032	106,877	181
105	78,857					11,688	3,402	1,453	6,838		131,467	125,479	5,988	325,918	182
311	157,319	5	1,500			76,612	3,000	1,277	22,275	50,000	257,580	253,727	3,853	634,058	183
353	146,500	282	40,300			46,133	6,532	39,331	39,331		253,034	245,054	8,000	630,680	184
14	7,121	1	150	2	232	3,411	1,334	1,443	1,443		14,090	14,090	216	45,020	185
1,275	732,457	18	4,980	13	2,134	166,987	3,200	14,615	149,172		1,445,745	1,438,046	12,699	2,922,959	186
363	161,123					23,908	3,360	1,704	6,994	11,850	202,516	199,479	3,037	485,581	187
69	35,152	663	139,880	1	101	50,986	13,453	712	19,454	17,367	405,340	401,749	3,591	833,258	188
229	102,														

TABLE 7.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
192 Slaughtering, wholesale, not including meat packing.	11	\$131,400	\$32,175	\$32,550	\$22,175	\$54,500	14		65	\$36,110	
193 Soap and candles	55	7,655,594	600,720	1,852,268	910,350	4,292,256	58	360	\$390,180	1,427	572,301
194 Sporting goods	9	314,202	6,800	21,200	54,803	225,399	6	26	20,321	349	127,059
195 Stamped ware	8	767,370	128,000	107,000	308,355	234,004	5	34	36,239	384	136,718
196 Starch	5	2,073,209	705,000	875,000	269,703	223,506	5	31	39,515	199	78,159
197 Stationery goods, not elsewhere specified.	5	1,402,655	80,500	124,490	247,501	950,164	5	91	83,777	968	265,741
198 Steam fittings and heating apparatus	22	1,444,658	135,946	208,400	229,215	371,097	14	98	96,237	677	374,639
199 Stencils and brands	10	145,940	34,000	50,040	45,000	18,300	12	5	2,816	71	35,293
200 Stereotyping and electrotyping	12	193,854			86,608	107,276	12	38	83,489	186	108,050
201 Sugar and molasses, refining.	21	97,349	1,257	4,000	15,469	73,533	26	8	11,870	26	9,972
202 Surgical appliances	12	20,250	1,000	1,000	4,495	13,755	14			30	11,900
203 Taxidermy	5	4,480			590	3,900	5			1	155
204 Tin andterne plate	12	1,158,235	53,300	101,335	405,327	593,303	1	38	33,301	697	394,675
205 Tinsmithing, coppersmithing, and sheet-iron working.	355	3,427,902	306,443	498,269	763,832	1,859,413	1,052	240	201,030	3,395	1,436,861
206 Tobacco, chewing, smoking, and snuff.	19	2,031,858	34,421	181,660	350,316	1,515,461	18	162	242,606	1,037	389,881
207 Tobacco, cigars and cigarettes	1,129	4,579,159	184,353	309,930	320,178	8,764,643	1,273	372	363,170	9,046	3,016,072
208 Tobacco, stemming and re-rolling	48	2,873,683	52,875	207,268	89,176	2,579,369	35	64	86,414	2,056	552,593
209 Tools, not elsewhere specified	41	1,390,653	83,450	238,642	484,005	579,556	40	88	79,104	832	394,674
210 Toys and games	16	306,639	23,301	36,804	61,599	184,926	17	31	16,062	850	102,719
211 Trunks and valises	23	356,259	22,800	36,500	41,857	255,602	20	49	40,150	423	159,664
212 Umbrellas and canes	20	306,209	2,500	20,700	57,579	225,430	20	49	32,375	202	90,173
213 Upholstering materials	13	473,543	35,900	64,750	140,070	236,823	18	19	26,646	183	66,491
214 Varnish	20	1,195,835	90,081	103,352	84,519	357,933	21	120	165,317	109	76,841
215 Vinegar and cider	118	265,882	28,257	57,888	94,224	85,213	143	18	18,617	102	34,387
216 Washing machines and clothes wringers.	17	80,690	2,900	7,700	19,062	51,028	19	16	8,685	68	31,469
217 Watch, clock, and jewelry repairing	736	544,596	70,815	31,420	184,395	207,466	783	5	2,430	534	276,304
218 Whips	4	184,130	4,000	26,571	27,303	125,736	45	45	42,394	146	40,429
219 Windmills	3	240,882	5,453	63,536	10,297	161,596	4	14	13,527	110	52,259
220 Window shades	4	121,210			7,210	114,000	6	10	7,680	60	26,715
221 Wirework, including wire rope and cable.	48	1,170,208	61,600	176,552	336,340	592,211	49	88	68,057	977	352,362
222 Wood, turned and carved	97	1,169,790	169,691	194,546	284,418	521,135	110	55	53,225	980	386,185
223 Woodenware, not elsewhere specified	8	186,460	13,240	41,500	20,200	102,520	12	12	6,827	140	57,774
224 Wooden goods	35	1,591,415	112,745	280,978	472,411	725,311	28	57	64,776	636	201,547
225 All other industries ¹	87	12,633,102	1,133,930	1,616,042	3,508,887	6,293,643	68	423	530,842	7,466	3,548,455

¹ Embraces axle grease, 1; babbitt metal and solder, 2; bells, 2; bone, ivory, and lamp black, 1; bronze castings, 1; calcium lights, 1; chocolate and cocoa products, 1; clocks, 1; copper, smelting and refining, 1; cordials and strups, 2; cork, cutting, 1; cotton small wares, 1; cotton waste, 1; dentists' materials, 1; drug grinding, 1; dyeing and finishing textiles, 1; emery wheels, 1; engravers' materials, 1; envelopes, 1; felt goods, 2; fire extinguishers, chemical, 1; fur hats, 1; galvanizing, 2; glue, 1; gold and silver, leaf and foil, 2; gold and silver, reducing and refining, not from the ore, 2; hammocks, 2; horseshoes, factory product, 1; ink, writing, 2; iron and steel, doors and shutters, 1; lard, refined, 1; lasts, 2; lead, bar, pipe, and sheet, 2; matches, 2; nets and seines, 1; oil, cottonseed and

TABLE 8.—MANUFACTURES IN CITIES

AKRON.

1 All industries	431	\$24,199,310	\$1,208,661	\$4,596,380	\$5,970,113	\$12,424,156	427	1,180	\$1,019,025	9,080	\$3,971,307	
2 Bicycle and tricycle repairing	5	2,330			1,145	1,685	6			3	1,025	
3 Blacksmithing and wheelwrighting	31	21,030	8,110	5,150	3,340	4,480	34			25	14,124	
4 Boots and shoes, custom work and repairing.	30	3,472	525	475	1,695	777	31			4	1,600	
5 Bread and other bakery products	19	26,717	2,725	6,575	8,711	8,706	18	9	4,309	34	15,905	
6 Brick and tile	3	84,313	15,060	23,000	12,539	28,674	6	4	2,510	72	29,299	
7 Brooms and brushes	3	2,640	700	625	340	975	3			6	2,920	
8 Carpentering	16	40,469	3,600	9,400	6,004	21,465	19	4	2,430	97	44,533	
9 Carriage and wagon materials	3	146,292	22,937	43,754	29,109	50,492	14	14	14,450	133	62,365	
10 Carriages and wagons	5	59,375	13,000	10,100	5,475	25,800	6	3	2,350	24	11,134	
11 Clothing, men's, custom work and repairing.	27	37,544	2,200	325	2,150	32,399	29	1	1,200	92	40,251	
12 Clothing, women's, dressmaking	9	2,075			1,545	530	9	4	2,500	68	11,976	
13 Confectionery	3	25,150	2,400	3,200	3,525	11,025	3	4	3,504	35	18,953	
14 Electrical apparatus and supplies	3	77,900	10,400	13,000	12,500	44,000	1	2	4,700	27	12,116	
15 Foundry and machine shop products	19	3,539,551	145,108	416,460	397,753	2,580,239	13	207	154,646	1,171	698,560	
16 Furniture, cabinetmaking, repairing, and upholstering.	7	17,102	6,900	1,200	2,707	6,295	7	1	275	14	7,090	
17 Looking-glass and picture frames	5	4,330			530	3,800	6	1	900	7	4,000	
18 Lumber, planing mill products, including sash, doors, and blinds.	6	210,219	10,120	11,388	15,141	173,570	10	11	10,700	109	58,450	
19 Masonry, brick and stone	12	22,490	600	1,200	5,290	15,400	15	1	600	107	61,750	
20 Millinery, custom work	14	47,150	7,000	5,000	1,150	34,000	16	8	4,680	64	20,350	
21 Painting, house, sign, etc	19	123,499	4,850	28,968	32,855	61,826	21	7	7,953	109	61,000	
22 Patent medicines and compounds	6	48,416	500	500	1,300	46,116	5	3	2,600	5	1,194	
23 Photography	11	14,985		125	8,265	6,595	14	1	450	10	4,046	
24 Plastering and stucco work	3	1,475			425	1,050	3	1		12	8,200	
25 Plumbing, and gas and steam fitting	10	32,040			3,250	28,750	17	4	1,920	54	25,979	
26 Pottery, terra cotta, and fire-clay products.	18	1,455,246	150,567	637,284	315,571	351,824	8	45	42,229	900	411,849	

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
65	\$36, 110					\$19, 880	\$780	\$980	\$17, 670		\$921, 159	\$917, 268	\$3, 891	\$1, 051, 476	192
988	478, 755	401	\$98, 002	38	\$5, 544	1, 182, 185	12, 969	37, 524	1, 122, 600	\$9, 092	5, 049, 219	4, 944, 710	104, 509	8, 150, 069	193
164	75, 619	185	51, 440			22, 801	1, 985	1, 452	19, 361		578, 818	569, 185	4, 633	797, 594	194
878	135, 472	11	1, 247			28, 942	4, 440	2, 919	16, 583		297, 849	287, 980	9, 869	570, 610	195
157	67, 949	89	9, 850	3	360	84, 896	1, 980	6, 488	76, 978		572, 168	558, 138	14, 030	940, 511	196
280	141, 571	672	124, 320	16	2, 850	83, 188	3, 520	4, 367	25, 301		448, 006	438, 448	9, 558	977, 867	197
671	372, 481	1	208	5	2, 000	72, 204	8, 426	5, 924	48, 531	9, 323	610, 082	594, 300	15, 782	1, 495, 798	198
68	34, 343			8	950	7, 389	2, 645	986	3, 558	100	19, 540	18, 445	1, 095	91, 218	199
180	106, 550	4	1, 050	2	450	28, 369	7, 916	839	19, 614		82, 868	76, 510	5, 358	817, 041	200
24	9, 612	1	236	1	124	18, 278	1, 900	873	16, 005		96, 024	94, 802	1, 222	167, 625	201
12	7, 343	16	4, 194	2	358	3, 044	1, 927	64	1, 053		7, 282	6, 939	293	41, 070	202
				1	156	78, 952	650	84	68		1, 435	1, 385	50	5, 040	208
564	353, 643	133	41, 027			88, 968	1, 800	3, 631	33, 682		5, 012, 175	4, 997, 783	14, 339	6, 023, 314	204
2, 329	1, 317, 350	422	93, 036	144	26, 425	268, 601	101, 246	22, 524	137, 186	7, 645	3, 972, 984	3, 928, 677	44, 307	7, 250, 109	205
657	268, 323	430	121, 558			3, 001, 188	10, 039	13, 926	2, 977, 168		1, 917, 219	1, 895, 866	21, 353	5, 752, 853	206
3, 738	1, 642, 778	5, 156	1, 351, 179	152	22, 115	2, 613, 678	142, 744	22, 537	2, 447, 769	628	3, 717, 825	3, 697, 039	20, 786	11, 239, 824	207
776	288, 077	1, 237	264, 405	48	5, 111	141, 173	8, 497	13, 483	116, 193	3, 000	2, 587, 583	2, 582, 421	5, 162	3, 839, 952	208
728	373, 544	103	21, 010	1	120	101, 708	7, 830	4, 762	87, 049	2, 067	411, 705	393, 669	18, 036	1, 350, 441	209
252	84, 129	91	17, 620	7	970	24, 218	1, 859	1, 090	20, 569		103, 498	103, 515	2, 982	348, 307	210
368	147, 964	48	9, 222	17	2, 473	37, 098	17, 820	2, 357	16, 921	700	353, 370	354, 683	3, 687	696, 988	211
184	46, 649	155	42, 900	3	624	20, 686	9, 952	1, 759	3, 975		306, 555	303, 376	3, 179	518, 994	212
139	53, 961	47	12, 130	2	350	23, 095	4, 698	2, 515	16, 884		423, 067	418, 514	4, 558	614, 846	213
108	76, 541	1	300			165, 960	5, 110	3, 494	152, 356		910, 910	901, 678	9, 232	1, 588, 623	214
94	32, 867	6	1, 340	2	160	18, 736	663	1, 777	16, 296		147, 999	141, 641	6, 358	302, 405	215
67	31, 349			1	120	7, 831	3, 740	688	3, 553		129, 584	126, 767	2, 767	214, 604	216
497	263, 508	24	6, 261	18	1, 535	102, 009	74, 207	4, 877	18, 485	4, 490	207, 698	199, 158	8, 530	1, 021, 897	217
84	27, 470	62	12, 959			26, 366		1, 179	25, 187		131, 192	129, 837	1, 355	267, 879	218
110	52, 259					9, 774	140	3, 262	6, 372		95, 744	95, 104	640	174, 396	219
41	21, 615	19	5, 100			9, 045	5, 400	405	3, 240		202, 190	201, 830	880	283, 935	220
903	381, 576	73	20, 606	1	180	92, 689	9, 099	7, 078	74, 612	2, 000	803, 813	794, 342	9, 471	1, 528, 375	221
960	383, 200	18	2, 222	7	763	62, 861	10, 643	6, 393	38, 620	7, 205	794, 605	784, 031	10, 574	1, 526, 720	222
139	57, 674			1	100	21, 025	781	1, 761	18, 483		83, 452	80, 267	3, 185	205, 600	223
200	110, 850	341	37, 037	29	3, 660	35, 394	2, 100	7, 936	76, 353		869, 236	851, 189	13, 047	1, 321, 751	224
6, 198	3, 208, 656	1, 233	334, 295	35	5, 504	1, 228, 886	33, 393	45, 552	370, 564		9, 870, 163	9, 720, 222	149, 941	17, 606, 694	225

cake, 1; oil, lard, 1; oilcloth, enameled, 1; oilcloth, floor, 1; oleomargarine, 2; pens, gold, 1; pens, steel, 1; photographic apparatus, 2; pipes, tobacco, 1; refrigerators, 1; rules, ivory and wood, 1; sewing machine cases, 1; shipbuilding, iron and steel, 2; silversmithing, 1; smelting and refining, not from the ore, 2; springs, steel, car and carriage, 2; steam packing, 2; straw goods, not elsewhere specified, 1; type founding, 1; typewriter repairing, 2; typewriters and supplies, 1; vault lights and ventilators, 2; watch cases, 2; watches, 2; wheelbarrows, 2; wire, 1; wool pulling, 2; worsted goods, 1.

BY SPECIFIED INDUSTRIES: 1900.

AKRON.

7, 299	\$3, 529, 449	1, 666	\$433, 314	65	\$3, 544	\$1, 779, 804	\$56, 626	\$111, 104	\$1, 236, 162	\$375, 912	\$13, 474, 282	\$18, 114, 806	\$359, 476	\$23, 610, 099	1
8	1, 025					699	528	6	165		1, 838	1, 335	53	5, 500	2
25	14, 124					2, 645	2, 171	181	293		14, 330	13, 436	944	58, 252	3
4	1, 600					1, 608	1, 577	13	18		7, 966	7, 763	203	26, 442	4
31	15, 255	3	650			4, 516	3, 071	363	1, 082		51, 659	49, 089	2, 570	94, 772	5
72	29, 239					7, 686		434	7, 202		17, 998	988	17, 010	75, 769	6
6	2, 920					299	224	20	55		3, 578	3, 563	16	8, 950	7
97	44, 533					13, 037	736	267	1, 562	10, 442	142, 072	141, 545	527	257, 574	8
133	62, 365					12, 632		1, 070	11, 562		78, 099	75, 566	2, 533	135, 793	9
24	11, 134					2, 914	150	495	1, 469	800	14, 465	13, 930	535	39, 643	10
64	33, 111	28	7, 140			7, 076	5, 778	186	1, 112		41, 072	40, 593	479	120, 929	11
23	18, 654	65	11, 976			4, 091	4, 039	52			21, 450	21, 400	50	53, 450	12
26	11, 700	12	4, 404			2, 352	1, 600	310	442		30, 630	29, 585	1, 045	70, 000	13
1, 165	606, 310	1	416			3, 348	50	258	3, 010		14, 613	13, 553	1, 060	41, 250	14
18	6, 990	6	2, 250			244, 777	332	15, 162	119, 693	109, 570	745, 852	715, 361	30, 491	2, 044, 789	15
		1	100			1, 697	779	142	776		8, 353	8, 067	286	23, 623	16
6	3, 550	1	450			672	599	73	78		12, 422	12, 395	27	24, 675	17
109	58, 450					7, 303	1, 325	966	4, 612	400	82, 446	81, 941	505	192, 650	18
107	61, 750					309	385	71	353		71, 760	71, 655	105	167, 703	19
105	60, 040	64	20, 350			21, 523	8, 543	610	12, 370		66, 506	66, 224	282	138, 598	20
		4	960			23, 595	618	149	22, 828		125, 495	124, 138	1, 357	256, 006	21
1	460	4	744			11, 124	555	86	10, 483		13, 435	13, 345	90	36, 250	22
7	3, 473	8	575			2, 626	2, 229	29	368		11, 282	11, 046	236	32, 367	23
12	3, 200										7, 575	7, 575		19, 300	24
54	25, 979					5, 303	2, 523	233	3, 047		64, 502	64, 352	150	120, 413	25
785	337, 399	113	24, 150	2	300	64, 474		12, 307	49, 667	2, 500	215, 456	101, 273	114, 133	867, 116	26

TABLE 8.—MANUFACTURES IN CITIES

AKRON—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
27 Printing and publishing, book and job.	13	\$2,105,040	\$40,150	\$500,050	\$1,018,589	\$638,251	10	111	\$98,611	903	\$131,763
28 Printing and publishing, newspapers and periodicals.	5	217,390	5,000	5,000	128,000	81,390	1	37	44,780	46	33,967
29 Roofing and roofing materials	11	52,229	9,250	3,850	6,059	33,070	14	8	4,880	74	30,331
30 Rubber and elastic goods	8	4,642,896	279,603	506,879	824,444	3,031,970	6	259	233,993	2,677	1,005,405
31 Saddlery and harness	12	19,335	1,400	950	2,310	14,675	18	1	900	11	6,035
32 Tinsmithing, coppersmithing, and sheet-iron working.	8	61,265	4,350	12,850	10,990	33,075	9	9	5,713	37	17,334
33 Tobacco, cigars and cigarettes	7	4,803	1,350	700	133	2,620	9			9	3,816
34 Watch, clock, and jewelry repairing	14	6,750			4,075	2,675	14			12	4,725
35 All other industries ¹	60	10,947,742	455,316	2,344,272	3,100,158	5,047,996	63	371	365,242	2,079	904,505

¹ Embraces agricultural implements, 2; awnings, tents, and sails, 2; belting and hose, leather, 1; bicycles and tricycles, 1; bottling, 1; boxes, fancy and paper, 1; brass castings and brass finishing, 1; carpets, rug, 1; china decorating, 1; cleansing and polishing preparations, 2; coffee and spice, roasting and grinding, 1; cooperage, 1; cordage and twine, 1; dyeing and cleaning, 2; electrical construction and repairs, 2; electroplating, 1; engraving, wood, 1; fancy articles, not elsewhere specified, 2; files, 1; flavoring extracts, 1; flouring and grist mill products, 2; food preparations, 1; gas, illuminating and heating, 1; hand stamps, 1; hardware, 1;

CANTON.

1 All industries	502	\$10,094,813	\$935,518	\$1,625,524	\$1,959,271	\$5,574,500	541	562	\$523,561	6,455	\$2,970,245
2 Agricultural implements	6	2,473,863	202,360	223,474	281,489	1,766,540	1	102	99,818	586	267,619
3 Bicycle and tricycle repairing	12	8,480	1,000	1,000	3,275	3,205	18			12	6,297
4 Blacksmithing and wheelwrighting	21	17,015	4,600	3,900	2,640	5,875	23			17	7,290
5 Boots and shoes, custom work and repairing.	29	11,778	800	1,550	2,965	6,463	29			12	6,313
6 Bottling	3	20,150	5,000	12,000	200	2,950	3		572	9	4,292
7 Bread and other bakery products	11	34,908	2,700	5,500	11,950	14,656	15	1	720	47	20,551
8 Brick and tile	3	465,139	71,470	191,358	70,242	132,069	9	9	8,980	171	38,431
9 Carpentering	23	144,330	23,200	15,100	11,835	94,135	30	2	1,500	212	111,537
10 Carpets, rug	3	2,395	200	200	325	1,470	3			2	452
11 Carriages and wagons	7	34,600	7,600	5,900	3,375	17,925	12	1	150	33	15,437
12 Clothing, men's, custom work and repairing.	28	19,689	2,850	2,450	2,310	12,079	31	3	1,174	36	39,303
13 Clothing, women's, dressmaking	52	21,132	975	1,600	5,320	13,237	59			110	24,378
14 Confectionery	9	41,610	3,600	6,700	5,300	26,010	10	12	7,000	28	8,534
15 Dyeing and cleaning	6	2,975	400	800	1,740	595	6			8	3,370
16 Electrical construction and repairs	3	6,905			6,100	805	3			6	2,702
17 Flouring and grist mill products	3	51,000	13,000	10,000	22,000	6,000	3	3	1,600	7	4,358
18 Foundry and machine shop products	16	611,760	48,131	118,123	125,338	320,113	16	35	28,354	446	201,432
19 Furniture, cabinetmaking, repairing, and upholstering.	3	5,200	500	50	850	3,800	3			3	1,460
20 Furniture, factory product	5	332,315	28,033	63,769	40,916	244,602	1	27	34,020	236	110,923
21 Hardware, saddlery	3	234,316	15,200	57,650	41,265	120,701	4	16	16,166	225	87,637
22 Iron and steel	3	763,733	67,531	98,130	283,105	319,967		30	43,220	371	212,231
23 Ironwork, architectural and ornamental.	4	712,655	34,700	92,103	99,007	436,845	2	64	47,513	304	109,320
24 Lamps and reflectors	3	150,434	19,423	6,000	7,123	117,833	3	22	11,853	64	23,974
25 Lock and gun smithing	3	1,650			1,100	450	3				
26 Looking-glass and picture frames	4	8,035			450	7,635	4			6	2,350
27 Masonry, brick and stone	22	62,995	11,550	16,040	10,115	25,230	23			136	99,794
28 Millinery, custom work	10	16,123			643	15,480	13			45	16,118
29 Painting, house, sign, etc	30	52,522	9,735	10,690	4,140	27,957	37			71	41,917
30 Paving and paving materials	6	11,810	400	900	4,925	5,585	8			48	24,454
31 Photography	11	16,725		1,150	7,700	7,875	11			11	4,839
32 Plastering and stuccowork	9	9,355	1,500	2,600	1,010	4,245	9			27	20,712
33 Plumbing, and gas and steam fitting	7	61,275	3,800	4,500	3,525	49,950	6	12	8,384	69	36,223
34 Pottery, terra cotta, and fire-clay products.	3	131,300	6,000	53,500	50,000	17,300	3	5	5,000	76	27,734
35 Printing and publishing, book and job.	7	31,875	1,500	1,000	26,600	2,775	7			23	10,329
36 Printing and publishing, newspapers and periodicals.	4	34,121	3,000	2,000	44,500	29,621	1	12	11,376	30	36,140
37 Roofing and roofing materials	5	80,800	400	950	15,575	63,375	5	5	4,400	23	12,692
38 Saddlery and harness	8	170,117	6,000	46,000	19,536	98,531	8	12	10,715	207	62,656
39 Tinsmithing, coppersmithing, and sheet-iron working.	17	27,036	4,200	5,575	4,060	13,261	18	2	600	35	16,563
40 Tobacco, cigars and cigarettes	15	13,478	850	1,500	1,420	9,708	15	3	1,416	43	13,647
41 Watch, clock, and jewelry repairing	3	7,073	300	700	2,220	3,853	9			9	4,392
42 Wood, turned and carved	3	8,840	3,150	1,100	3,153	1,435	3			14	5,003
43 All other industries ¹	69	3,077,038	325,350	550,417	729,327	1,471,494	80	133	172,520	2,537	1,130,143

¹ Embraces baking and yeast powders, 1; bicycles and tricycles, 1; bookbinding and blank book making, 2; boxes, wooden packing, 1; bridges, 1; brooms and brushes, 2; carriage and wagon materials, 2; carriages and sleds, children's, 2; cars and general shop construction and repairs by steam railroad companies, 1; cleansing and polishing preparations, 1; clothing, men's, factory product, 2; cutlery and edge tools, 2; electrical apparatus and supplies, 1; fancy articles, not elsewhere specified, 2; fertilizers, 1; flavoring extracts, 1; food preparations, 1; fruits and vegetables, canning and preserving, 2; gas, illuminating and heating, 1; hardware, 1; ice, manufactured, 1; leather goods, 2; liquors, malt, 1; lumber, planing mill products, including sash, doors, and blinds, 2; marble and stone work, 2;

BY SPECIFIED INDUSTRIES: 1900—Continued.

AKRON—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.	
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.									
583	\$347,545	320	\$84,218			\$375,444	\$4,090	\$13,141	\$193,013	\$165,200	\$585,907	\$527,107	\$8,800	\$1,821,296
42	32,447	4	1,520			84,241	1,480	409	1,852	80,500	25,732	24,142	1,590	227,300
74	30,981					1,908	864	320	719		99,888	99,596	287	160,578
2,098	858,171	574	146,169	5	\$1,065	223,697	600	34,556	188,541		8,571,677	8,484,391	87,286	5,524,674
11	6,085					1,487	1,067	106	814		17,466	17,281	185	87,618
37	17,384					9,596	925	52	3,619	5,000	22,768	22,800	463	60,427
9	8,816					2,192	276	37	1,879		8,789	8,708	81	21,990
12	4,725					2,054	1,720	89	295		2,614	2,545	69	18,025
1,561	770,084	460	127,242	58	7,179	681,909	7,717	29,086	593,606	1,500	7,324,997	7,239,018	85,979	10,724,727

ice, manufactured, 1; ink, printing, 1; ironwork, architectural and ornamental, 1; lime and cement, 1; liquors, malt, 2; lock and gun smithing, 2; mineral and soda waters, 2; mirrors, 1; models and patterns, 2; monuments and tombstones, 2; oilcloth, enameled, 1; paper and wood pulp, 1; pens, fountain and stylographic, 1; perfumery and cosmetics, 1; photolithography and photoengraving, 2; pickles, preserves, and sauces, 1; pumps, not including steam pumps, 1; salt, 1; sewing machine repairing, 1; ship and boat building, wooden, 2; shirts, 1; soap and candles, 1; sporting goods, 1; varnish, 2; wood, turned and carved, 2.

CANTON.

5,530	\$2,785,277	908	\$231,657	22	\$3,311	\$1,081,809	\$45,845	\$49,918	\$765,648	\$220,908	\$5,604,399	\$5,406,648	\$197,756	\$12,258,427	1
586	267,619					139,608		7,747	131,861		539,262	528,397	10,865	1,184,949	2
12	6,297					1,825	1,244	45	586		17,570	17,227	848	38,863	3
17	7,290					2,144	1,805	185	154		11,128	10,410	718	39,882	4
12	6,818					2,065	1,666	97	802		12,514	12,093	416	85,707	5
8	3,892	1	400			1,271	100	120	1,051		28,982	28,862	120	43,104	6
39	18,446	8	2,105			3,406	1,466	306	1,634		58,892	56,891	2,001	120,414	7
165	82,401			6	1,080	37,993		1,367	36,626		63,141	23,245	39,896	255,890	8
212	111,587					81,591	489	739	2,878	77,485	315,600	315,003	597	585,228	9
2	452					228	173	6	49		1,583	1,536	47	3,302	10
33	15,437					1,607	696	219	692		22,170	21,534	636	60,284	11
50	29,216	35	10,087			4,534	3,678	141	715		47,462	46,921	541	124,691	12
2	1,800	108	22,573			6,390	4,989	253	1,098	50	36,776	35,620	1,156	103,713	13
17	6,414	11	2,120			2,465	1,034	332	1,049		31,090	30,510	580	63,439	14
3	2,220	5	1,150			814	231	16	567		2,283	2,090	193	12,383	15
5	2,520	1	182			567	336	10	221		5,465	5,883	77	13,300	16
7	4,858					3,707		667	3,040		142,728	141,430	1,298	165,684	17
494	199,812	12	1,670			31,481	578	2,726	28,177		281,646	272,448	9,198	692,680	18
2	1,200	1	260			612	276	22	314		3,885	3,825	60	11,500	19
286	110,926					22,201	210	1,495	20,496		86,754	84,480	2,274	352,031	20
220	86,637	5	1,000			22,595	600	1,107	20,888		61,981	58,136	3,795	215,523	21
371	212,231					27,471	198	2,553	24,720		575,159	528,127	52,032	995,862	22
267	100,005	46	8,550	1	105	60,504	132	1,951	58,421		716,047	710,922	4,125	1,078,664	23
64	23,974					72,661	430	895	3,523	67,813	68,371	67,648	723	215,460	24
6	2,850					246	192	4	50		1,333	1,250	73	3,318	25
136	99,794					1,665	841	64	360	400	14,740	14,435	305	25,170	26
70	41,721					73,466	240	410	3,016	69,800	85,881	85,538	348	301,992	27
48	24,454	45	16,118			5,233	4,080	149	1,054		62,427	61,355	1,072	117,275	28
7	3,869	4	970		196	4,615	1,927	415	2,273		29,859	29,454	405	110,710	29
27	20,712					4,795	1,811	137	2,647	200	13,440	12,949	491	42,860	31
69	36,223					1,006	316	108	582		15,625	15,515	110	43,110	32
67	26,359	9	1,375			4,465	2,066	376	2,023		68,231	67,875	356	142,195	33
19	9,528	4	806			8,714	1,800	174	2,740	4,000	23,050	6,398	16,152	81,481	34
66	33,140	13	2,900	1	100	1,544	789	132	623		7,111	6,564	547	26,882	35
22	12,860					16,484	1,880	291	14,313		31,162	20,720	1,442	117,648	36
130	50,597	77	12,059			4,458	372	238	3,353		101,177	100,660	517	158,858	37
84	16,263	1	300			21,643	1,348	1,122	19,173		215,067	213,812	1,255	331,190	38
19	9,202	24	4,445			2,584	1,548	174	812		28,947	28,421	526	68,733	39
9	4,892					13,190	989	45	12,156		16,125	15,860	265	54,195	40
14	5,008					1,475	898	24	433	120	2,699	2,413	286	12,185	41
2,033	1,036,118	401	142,255	13	1,770	164	12	24	128		302	99	203	7,525	42
						387,776	3,341	22,920	360,475	1,040	1,740,972	1,699,310	41,662	4,154,161	43

mattresses and spring beds, 1; mineral and soda waters, 2; mirrors, 1; models and patterns, 2; monuments and tombstones, 2; paints, 1; patent medicines and compounds, 1; photolithography and photoengraving, 1; rubber and elastic goods, 1; safes and vaults, 1; saws, 1; sewing machine repairing, 1; shirts, 2; soap and candles, 1; stationary goods, not elsewhere specified, 1; steam fittings and heating apparatus, 2; surgical appliances, 1; tin and tinned plate, 1; tools, not elsewhere specified, 1; toys and games, 2; umbrellas and canes, 1; washing machines and clothes wringers, 1; watch cases, 1; watches, 1; wirework, including wire rope and cable, 2; woolen goods, 1.

TABLE 8.—MANUFACTURES IN CITIES

CINCINNATI.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 All industries	5,127	\$109,582,142	\$10,024,869	\$13,894,633	\$23,414,761	\$62,248,379	5,805	6,657	\$6,776,141	63,240	\$27,189,069
2 Artificial feathers and flowers	3	1,400			100	1,300	8	1	100	4	2,000
3 Awnings, tents, and sails	7	41,875	16,000	5,000	2,050	19,825	11	1	1,000	40	17,431
4 Bags, other than paper	3	42,850			8,900	33,950	3	5	8,764	28	7,540
5 Bags, paper	7	188,755			65,106	123,649	4	35	26,473	126	38,073
6 Baking and yeast powders	5	48,100			2,800	45,300	4	27	19,669	44	18,054
7 Baskets, and rattan and willow ware	8	8,660	3,000	2,800	390	2,470	8			16	4,362
8 Bicycle and tricycle repairing	22	22,250			10,726	11,524	20	2	462	22	11,675
9 Billiard tables and materials	8	16,450			150	16,300	4	3	4,850	15	7,800
10 Blacksmithing and wheelwrighting	166	220,108	58,050	50,285	44,775	67,048	203	3	1,740	324	179,231
11 Bookbinding and blank book making	18	70,148			32,400	37,748	17	11	6,848	179	78,936
12 Boot and shoe cut stock	8	13,051			1,051	12,000	3			9	4,600
13 Boot and shoe uppers	5	1,850			775	1,075	4			4	1,550
14 Boots and shoes, custom work and repairing	292	88,769	10,400	12,590	19,360	45,919	300	8	5,970	104	66,737
15 Boots and shoes, factory product	89	3,688,918	102,100	180,701	659,982	2,746,185	59	392	498,560	6,919	2,187,856
16 Bottling	3	4,850			700	4,150	5	1	480	5	2,400
17 Boxes, cigar	8	188,246	25,000	43,200	23,636	96,510	11	13	8,996	240	70,219
18 Boxes, fancy and paper	12	202,308			58,908	143,400	14	24	32,238	543	134,183
19 Boxes, wooden packing	8	204,380	58,700	27,638	45,902	72,145	12	9	6,640	196	89,900
20 Brass castings and brass finishing	10	854,843	0,000	40,000	161,060	147,783	16	19	12,970	455	185,599
21 Brassware	4	108,215			21,850	81,365	4	8	10,000	61	20,450
22 Bread and other bakery products	258	1,505,481	87,825	125,295	882,090	410,271	275	172	113,372	1,101	460,737
23 Brick and tile	12	26,150	2,000	3,950	8,200	12,000	19			54	30,858
24 Brooms and brushes	17	227,970	6,500	19,500	73,990	127,980	22	28	37,538	128	49,516
25 Carpentering	304	595,777	81,580	60,150	72,625	391,422	347	51	43,344	1,160	730,057
26 Carpets, rug	12	4,985	50	100	2,450	2,385	13	4	2,239	17	4,603
27 Carriage and wagon materials	13	792,222	54,750	81,800	121,790	538,832	14	33	28,390	629	305,024
28 Carriages and wagons	63	3,488,793	301,650	310,974	163,640	2,717,499	71	280	234,227	2,147	1,118,426
29 Cuts and general shop construction and repairs by steam railroad companies	4	165,834	46,500	33,600	42,054	34,130		18	16,187	460	253,457
30 Chemicals	8	594,180	48,000	62,950	174,300	258,930	4	20	31,982	94	51,789
31 Cleansing and polishing preparations	4	20,450	150	250	1,710	18,340	2	5	12,000	13	2,750
32 Cloth, sponging and refinishing	8	8,767			2,290	1,467	5			31	15,699
33 Clothing, men's, custom work and repairing	270	780,916	37,205	27,260	29,625	696,825	322	61	45,900	380	424,650
34 Clothing, men's, factory product	351	8,262,871	101,225	150,610	96,743	7,914,233	441	591	616,432	3,784	1,326,045
35 Clothing, men's, factory product, buttonholes	5	17,575			14,750	2,825	6	1	416	144	40,118
36 Clothing, women's, dressmaking	220	145,015	17,370	21,600	20,330	85,715	253	9	5,717	634	166,869
37 Clothing, women's, factory product	38	850,135	19,630	62,350	56,691	721,464	53	106	108,233	1,363	398,618
38 Coffee and spice, roasting and grinding	10	473,895	15,000	55,250	44,844	358,801	10	63	71,412	109	42,197
39 Collins, burial cases, and undertakers' goods	4	1,248,901	101,225	257,375	230,349	659,952	2	52	64,201	492	225,010
40 Confectionery	53	733,261	71,250	83,056	107,547	471,408	64	92	80,722	518	178,869
41 Coopers	35	802,397	67,400	30,395	180,899	464,703	39	28	41,512	703	281,504
42 Cutlery and edge tools	6	20,960	2,700	4,560	7,450	6,250	6	5	3,992	24	12,345
43 Druggists' preparations, not including prescriptions	6	624,600	30,000	50,000	42,100	502,500	11	99	140,068	135	38,187
44 Dyeing and cleaning	21	32,215	39,170	21,300	9,290	12,455	27	11	5,856	114	46,167
45 Electrical apparatus and supplies	9	320,681			36,204	284,477	8	51	47,514	233	98,675
46 Electrical construction and repairs	21	43,790			6,810	36,980	26	7	4,560	88	43,718
47 Electroplating	6	78,773	20,000	23,000	21,400	9,378	7	4	2,176	54	28,785
48 Enameling and enameled goods	3	18,397		1,500	4,700	12,197	4			42	13,984
49 Engraving and diesinking	11	33,535	6,000	10,500	10,575	6,460	14			19	9,936
50 Engraving, steel, including plate printing	5	17,388			4,800	13,086	5	5	5,634	28	9,206
51 Engraving, wood	8	27,310			6,550	20,760	11	5	3,444	50	27,758
52 Fancy articles, not elsewhere specified	4	24,775			9,500	15,275	6	3	1,900	26	10,148
53 Flavoring extracts	3	23,000		1,000	5,600	17,000	2	8	10,684	12	5,416
54 Flouring and grist mill products	10	287,804	35,504	43,871	114,951	93,533	10	16	20,529	61	30,085
55 Food preparations	4	46,101	250	100	20,888	24,863	2	6	4,800	61	15,497
56 Foundry and machine shop products	164	10,363,917	722,378	1,073,357	3,188,314	5,379,868	130	683	642,303	6,680	3,211,423
57 Foundry supplies	3	111,500	12,000	10,000	24,200	65,300		20	26,416	59	29,004
58 Fur goods	3	11,750			650	11,100	2	2	1,064	20	7,876
59 Furnishing goods, men's	6	66,650			5,550	61,600	11	18	7,593	178	43,964
60 Furniture, cabinetmaking, repairing, and upholstering	54	76,414	6,300	5,400	15,531	49,183	62	3	1,280	114	54,465
61 Furniture, factory product	54	3,817,295	581,284	756,763	332,048	2,147,200	72	240	216,149	2,355	966,162
62 Gas machines and meters	4	267,364	21,133	10,511	45,845	189,875	3	17	22,008	97	83,872
63 Glass, cutting, staining, and ornamenting	13	39,595			23,745	65,850	16	8	6,604	130	65,238
64 Grease and tallow	8	263,150	31,200	43,000	79,400	109,550	9	5	6,440	69	37,091
65 Hairwork	11	28,046	4,200	4,500	420	13,926	13	11	4,257	35	9,077
66 Hand knit goods	3	3,076			875	2,200	3			6	1,566

BY SPECIFIED INDUSTRIES: 1900—Continued.

CINCINNATI.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
46,882	\$23,275,688	15,314	\$3,761,098	1,044	\$152,283	\$22,873,620	\$1,649,757	\$562,399	\$17,792,211	\$2,869,253	\$77,539,292	\$76,516,468	\$1,022,824	\$157,806,834	1
4	2,000					959	760	9	190		1,082	1,050	32	6,600	2
24	12,856	16	4,575			6,221	2,560	395	2,465	800	36,192	35,921	271	71,907	3
18	4,640	15	2,900			2,315	1,675	90	1,050		64,380	64,005	325	88,800	4
67	24,024	59	13,149			10,768	4,034	490	6,239		824,156	820,006	4,150	463,472	5
22	11,908	22	6,146			20,979	8,360	629	16,990		108,414	106,910	1,604	193,000	6
13	4,062			8	800	1,848	1,103	113	627		8,895	3,835		18,250	7
21	11,472			1	208	4,323	3,630	188	520	35	11,205	10,637	568	42,520	8
15	7,800					3,146	1,611	5	1,530		23,435	23,430	6	48,246	9
823	170,106			1	125	30,667	22,744	2,608	5,140	175	118,936	111,032	7,904	518,716	10
101	53,217	72	19,699	6	1,020	17,027	7,553	605	1,918	7,056	40,142	38,201	1,941	183,822	11
6	3,700	8	800			790	570	80	140		72,436	72,804	132	97,080	12
3	1,400			1	150	1,041	348	3	190	500	7,750	7,750		15,500	13
158	65,397	3	872	3	468	28,152	23,074	894	8,634	500	80,662	79,870	792	325,748	14
8,922	1,498,941	2,054	641,417	343	46,998	371,004	56,122	12,287	302,550	45	5,297,822	5,276,172	21,650	8,788,424	15
5	2,400					1,623	876	37	710		11,396	11,396		20,100	16
116	41,992	123	23,098	1	134	16,618	1,585	974	14,059		216,280	214,488	1,797	853,900	17
116	43,156	423	90,642	4	400	33,805	12,340	709	20,756		153,428	149,708	3,720	425,734	18
196	83,900					14,595	3,510	1,900	9,185		817,530	814,036	3,494	475,620	19
496	181,249	19	4,850			23,680	8,318	1,041	13,671		275,807	269,513	6,294	574,782	20
61	20,450					12,680	2,424	111	10,145		37,180	36,530	650	105,400	21
808	401,823	226	47,502	67	11,912	238,375	76,076	7,835	154,464		1,671,279	1,632,746	38,533	3,048,295	22
54	80,858					7,358	3,870	209	3,279		12,016	12,441	9,575	65,650	23
121	48,184	3	760	4	572	85,095	3,806	1,940	19,349	60,000	244,764	242,056	2,708	491,308	24
1,167	729,537			3	520	790,737	24,323	3,682	42,057	720,670	1,294,503	1,290,212	4,291	3,418,563	25
8	2,857	7	1,466	2	280	2,525	1,394	19	1,112		4,295	3,965	330	23,055	26
610	301,844	9	1,920	10	1,260	54,955	9,220	2,817	42,509	400	615,279	610,995	4,284	1,130,940	27
2,055	1,088,989	90	27,137	2	800	237,417	56,375	15,676	163,566	1,800	3,623,808	3,623,003	24,805	6,096,108	28
466	252,211	4	1,240			36,836	500	994	34,747	646	147,716	142,873	4,842	454,245	29
94	51,789					59,876	4,867	3,740	51,269		692,351	672,957	19,394	957,446	30
6	1,550	7	1,200			9,090	800	25	8,205		18,777	18,679	98	56,400	31
31	15,699					1,927	1,362	25	510		339	329	210	22,000	32
570	348,950	292	73,069	18	2,631	319,890	35,529	3,141	31,870	199,350	838,525	834,802	4,228	2,169,113	33
1,803	764,072	2,347	543,276	134	13,697	1,558,198	112,567	17,376	326,867	1,131,388	6,610,080	6,619,629	20,451	11,950,648	34
19	8,388	125	31,730			4,356	3,264	31	1,061		12,796	11,930	866	74,518	35
46	19,974	533	145,815	5	530	38,036	29,579	860	7,222	375	177,558	176,429	1,129	583,315	36
808	132,829	1,048	264,736	7	1,053	123,511	25,885	2,270	40,864	54,522	1,173,226	1,167,242	5,984	2,074,805	37
67	31,677	42	10,520			30,899	6,180	8,113	21,606		1,159,871	1,152,155	7,716	1,416,395	38
416	205,815	76	19,195			95,179	3,829	6,864	84,986		461,727	457,782	3,945	942,007	39
289	127,787	221	50,017	8	1,065	68,604	18,217	3,507	46,780	100	1,002,635	994,290	8,345	1,525,359	40
703	281,604					36,947	4,120	4,539	28,288		627,518	624,626	2,892	1,110,860	41
24	12,345					2,149	1,300	156	693		6,106	4,911	1,195	36,551	42
79	20,284	54	12,539	2	364	48,675	2,800	1,900	43,975		242,943	240,297	2,646	792,150	43
71	82,171	43	12,995			11,832	6,636	968	3,218	1,010	24,041	22,179	1,862	118,279	44
231	98,075	2	600			32,160	9,333	2,161	20,466	200	530,299	520,132	4,167	813,130	45
85	43,184			3	534	11,298	6,161	118	4,989	80	122,640	121,826	814	356,959	46
52	27,935	2	800			5,422	1,150	994	3,278		16,096	14,456	1,640	66,835	47
26	10,244	16	3,740			2,582	650	101	1,881		23,715	21,181	2,534	48,744	48
18	9,832			1	104	2,608	1,714	265	529	100	6,078	5,515	563	33,418	49
18	7,381	10	2,422			2,470	1,811	114	545		5,975	5,790	185	34,760	50
48	27,550			2	208	4,870	2,103	92	2,600	75	9,265	9,035	180	78,800	51
20	3,865	6	1,283			2,613	1,980	40	593		20,866	20,370	496	56,067	52
9	4,636	3	780			9,174	1,012	312	7,850	500	42,890	42,335	555	69,100	53
53	27,900	8	2,185			19,461	8,946	1,735	13,780		676,780	670,190	6,600	789,114	54
16	6,253	41	8,844	4	400	6,973	2,748	98	4,127		42,492	40,752	1,740	90,783	55
6,603	3,193,527	60	15,047	17	2,849	964,173	124,732	53,434	699,242	86,670	4,963,461	4,836,610	126,851	11,705,778	56
59	29,004					10,403	3,120	1,123	6,160		108,450	104,100	4,350	210,000	57
5	3,760	14	4,020	1	96	1,575	1,180	100	295		13,435	13,350	85	36,785	58
43	16,520	185	27,444			5,163	3,150	227	1,786		97,209	96,393	811	249,680	59
107	53,231	2	450	5	784	16,539	11,243	286	3,660	1,350	73,745	74,977	708	213,764	60
2,318	956,927	36	9,049	1	186	194,789	44,635	22,435	127,594	25	1,663,651	1,545,055	18,596	3,594,196	61
97	83,872					9,555	4,100	990	4,465		159,894	158,290	1,104	320,425	62
121	63,308	9	1,980			8,572	6,194	248	2,130		50,896	49,231	1,665	167,523	63
69	37,091					10,517	384	3,220	6,913		686,525	677,293	9,232	758,837	64
1	260	34	8,817			5,413	3,376	400	1,642		16,847	16,749	98	48,061	65
1	600	5	966			671	588		73	10	2,645	2,624	21	7,740	66

TABLE 8.—MANUFACTURES IN CITIES

CINCINNATI—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
67 Hand stamps	3	\$5,750			\$2,200	\$3,550	3		17	\$9,012	
68 Hardware	10	610,805	\$25,500	\$10,845	230,524	307,836	9	32	423	172,836	
69 Hats and caps, not including fur hats and wool hats.	12	135,870			16,435	119,435	20	21	285	86,182	
70 Hosiery and knit goods	6	409,557	27,000	51,450	142,260	188,847	7	1	231	67,403	
71 House furnishing goods, not elsewhere specified.	6	78,460		18,000	14,500	45,960	7	6	85	10,250	
72 Ice, manufactured	5	147,524	23,120	30,264	37,094	7,046	1	8	27	19,003	
73 Instruments, professional and scientific.	4	10,000			4,800	5,200	3	3	10	6,090	
74 Ironwork, architectural and ornamental.	10	237,473	69,500	19,700	66,111	112,162	10	51	287	137,990	
75 Japanning	4	1,825			800	1,025	6		5	1,224	
76 Jewelry	16	628,938			45,560	583,378	24	35	199	103,262	
77 Kindling wood	3	2,825	500	550	825	950	2		7	2,175	
78 Lamps and reflectors	3	24,900			5,900	19,000	2	2	38	12,885	
79 Leather goods	4	18,110			2,500	10,610	4	13	33	7,707	
80 Leather, tanned, curried, and finished.	15	4,865,430	127,930	543,350	208,150	3,991,050	18	25	943	412,414	
81 Liquors, distilled	3	1,522,800	103,000	163,000	110,000	1,141,800	2	34	163	97,745	
82 Liquors, malt	21	11,370,912	1,821,052	3,262,482	2,139,651	4,147,724	6	193	1,282	910,936	
83 Liquors, vinous	5	26,175	2,200	3,050	3,425	17,500	6	3	8	3,930	
84 Lithography and engraving	11	2,048,723	51,863	173,500	793,903	1,021,462	5	113	954	556,267	
85 Lock and gun smithing	36	25,450	4,500	2,250	7,555	11,145	38		27	10,618	
86 Looking-glass and picture frames	14	519,245	79,000	132,000	61,370	246,875	15	49	396	170,639	
87 Lumber and timber products	6	3,173,790	1,721,784	76,494	183,200	1,187,312	9	46	604	223,791	
88 Lumber, planing mill products, including sash, doors, and blinds.	17	543,239	50,250	117,600	143,050	232,339	20	31	503	274,793	
89 Malt	7	503,290	24,450	93,140	18,500	372,200	10	12	68	47,289	
90 Marble and stone work	19	344,845	71,900	32,300	90,195	150,450	25	18	804	150,110	
91 Masonry, brick and stone	117	446,207	23,330	14,725	116,514	286,603	155	26	1,120	566,124	
92 Mattresses and spring beds	9	103,193	2,500	2,500	23,361	79,832	13	12	111	33,009	
93 Millinery and lace goods	11	120,964	4,000	46,000	14,267	56,697	12	8	243	65,933	
94 Millinery, custom work	99	162,874	4,200	21,800	11,315	122,059	122	59	258	77,076	
95 Mineral and soda waters	14	223,040	17,900	23,200	96,000	89,040	15	25	98	47,300	
96 Models and patterns	20	70,000			44,550	26,050	25	3	103	64,906	
97 Monuments and tombstones	19	103,270	17,890	23,320	12,210	43,350	24	8	59	33,850	
98 Musical instruments and materials, not specified.	7	107,730	50,000	30,000	1,600	6,120	6		9	4,350	
99 Musical instruments, pianos and materials.	4	790,601	64,750	155,537	65,142	505,122	2	23	513	226,011	
100 Optical goods	8	14,200			2,200	12,000	9		15	6,783	
101 Painting, house, sign, etc.	261	219,232	19,130	12,570	41,337	148,195	310	21	838	473,991	
102 Paints	13	1,972,203	307,794	195,206	163,317	1,300,946	15	84	230	117,312	
103 Paper goods, not elsewhere specified	4	32,700		3,000	36,300	43,400	4	9	46	13,600	
104 Paper hanging	78	142,948			7,563	135,385	86	33	241	132,539	
105 Patent medicines and compounds	41	231,223	7,300	19,650	36,338	217,387	37	53	189	57,406	
106 Paving and paving materials	38	243,757	14,850	25,990	52,699	155,209	38	41	421	199,046	
107 Perfumery and cosmetics	3	33,502			4,076	29,426	4	3	29	3,195	
108 Photography	32	97,450	10,500	14,100	30,275	42,575	39	14	103	52,577	
109 Photolithographing and photoengraving.	6	35,250	6,800	5,000	15,775	7,075	6	4	43	21,126	
110 Pickles, preserves, and sauces	3	347,650	5,000	33,000	33,950	225,700	8	33	264	106,692	
111 Plastering and stucco work	52	103,924	13,700	11,350	43,532	36,342	64	4	149	97,231	
112 Plumbers' supplies	7	357,630		9,000	49,350	299,280	5	49	317	119,135	
113 Plumbing, and gas and steam fitting	140	304,864	17,950	27,000	33,215	233,699	174	43	543	296,623	
114 Pottery, terra cotta, and fire-clay products.	7	413,379	86,410	167,407	43,324	110,733	7	27	287	124,070	
115 Printing and publishing, book and job.	115	1,630,554	55,940	56,837	1,017,050	500,707	134	127	1,617	784,122	
116 Printing and publishing, music	3	190,383			13,000	177,383	2	29	41	13,220	
117 Printing and publishing, newspapers and periodicals.	81	3,254,701	213,150	316,800	1,454,423	1,265,323	74	443	1,044	633,143	
118 Regalia and society banners and emblems.	7	253,950			23,900	230,050	8	64	342	83,053	
119 Roofing and roofing materials	31	340,231	9,050	24,176	73,041	233,981	35	31	149	74,534	
120 Saddlery and harness	58	731,593	59,600	105,650	70,980	545,363	69	88	478	214,707	
121 Saws and vaults	5	614,594	16,000	49,000	176,200	373,394	2	60	423	206,133	
122 Saws	4	71,850			10,750	61,100	4	5	29	15,057	
123 Sewing machine repairing	6	7,215			1,655	5,560	5	6	9	4,991	
124 Ship and boat building, wooden	4	59,300	10,100	7,000	11,900	30,300	1	4	103	32,899	
125 Shirts	29	213,377	500	1,500	20,725	191,152	42	45	458	111,942	
126 Slaughtering and meat packing, wholesale.	21	2,790,314	137,700	439,675	326,038	1,837,351	27	93	801	332,691	
127 Slaughtering, wholesale, not including meat packing.	6	102,250	15,000	23,000	20,750	43,500	9		55	31,930	
128 Soap and candles	20	1,130,327	30,330	163,742	270,415	661,040	21	33	452	157,453	
129 Sporting goods	5	94,302	3,000	10,000	27,070	54,232	5	8	91	14,345	
130 Stamped ware	4	236,000	65,000	25,000	30,000	116,000	2	20	85	32,133	
131 Steam fittings and heating apparatus	7	669,363	43,096	62,000	95,473	463,799	7	43	233	171,709	

BY SPECIFIED INDUSTRIES: 1900—Continued.

CINCINNATI—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
11	\$6,560	4	\$1,196	2	\$296	\$1,973	\$1,612	\$11	\$350		\$3,685	\$3,395	\$240	\$18,385	67
403	167,894	10	2,812	15	2,130	47,640	10,458	2,694	34,438		269,785	256,433	13,352	631,862	68
135	51,552	136	32,090	14	2,540	29,078	7,048	415	21,610		241,195	239,580	1,605	447,085	69
36	19,623	170	48,678	25	4,102	16,773	1,452	969	13,702	\$650	124,226	122,034	2,192	267,241	70
23	8,142	12	2,108			2,923	708	645	1,570		66,985	66,265	720	102,500	71
37	19,008					11,134	100	3,129	7,905		26,133	7,410	18,723	81,283	72
10	6,090					3,221	1,140	1,114	1,967		4,757	4,430	327	24,510	73
284	187,090	3	900			82,753	7,477	2,699	22,577		375,721	370,526	5,195	679,070	74
8	940			2	294	827	720	13	94		1,549	1,420	129	6,850	75
163	98,195	32	9,649	4	418	48,054	9,696	950	22,408	15,000	494,577	492,052	2,525	820,788	76
4	1,621			3	554	620	320	25	275		1,013	883	130	5,470	77
94	12,117		768			7,293	920	48	3,325	3,000	15,680	15,110	540	47,120	78
28	6,975	4	550	2	182	4,785	1,320	115	3,350		46,056	45,852	204	78,500	79
943	412,414					70,980	1,940	9,640	59,400		2,430,134	2,472,275	17,859	3,446,525	80
155	94,417	8	3,328			7,344,318	6,519	7,837,799			1,034,113	979,302	54,811	9,419,687	81
1,269	908,517	2	252	11	2,217	3,023,781	8,190	74,530	2,941,001		1,402,644	1,281,899	120,745	6,337,883	82
8	8,950					5,040	1,140	350	3,550		14,955	14,925	30	34,075	83
861	535,564	92	20,573	1	130	130,825	21,233	5,334	99,112	4,146	617,299	609,432	7,867	1,665,116	84
25	10,316	1	200	1	102	5,090	4,355	111	594		8,583	7,775	808	48,308	85
375	167,448	4	1,375	17	1,866	44,164	3,884	3,992	36,288		244,740	240,055	4,685	572,026	86
604	223,791					82,328	6,960	3,793	67,175		1,075,988	1,075,988		2,044,656	87
503	274,798					84,022	9,238	4,266	15,518	5,000	430,978	425,398	5,580	837,253	88
68	47,259					31,937	8,075	5,238	18,624		476,039	455,320	20,719	604,384	89
299	148,610	5	1,500			10,826	2,754	2,754	14,236		234,973	230,153	4,820	489,990	90
1,120	566,124					298,314	7,158	784	18,726	271,646	613,107	601,114	12,053	1,804,438	91
68	26,893	43	11,116			17,526	6,956	483	10,087		140,696	139,191	1,505	238,476	92
34	16,615	209	49,318			12,089	5,855	278	4,344	1,612	110,726	109,876	850	229,190	93
6	2,656	250	74,200	2	220	58,612	39,479	1,070	11,163	6,900	274,217	273,725	492	567,435	94
98	47,330					23,098	4,690	1,133	19,275		38,715	36,930	1,785	234,535	95
108	64,906					7,888	4,370	120	1,393	1,500	27,443	26,211	2,232	149,412	96
59	33,850					6,766	3,127	1,197	2,242	200	78,898	78,528	370	167,833	97
9	4,350					1,726	1,098	28	600		3,345	3,295	50	20,999	98
493	216,011	20	10,000			76,747	5,467	3,199	68,081		489,288	484,116	5,172	931,274	99
14	6,658			1	130	3,328	2,255	45	1,028		15,359	15,124	235	39,760	100
893	477,563	2	300	3	598	40,857	22,181	1,078	13,752	3,846	299,557	299,045	512	1,149,192	101
224	116,127	6	1,185			140,871	12,950	16,866	110,555		1,291,566	1,276,024	15,542	1,844,207	102
27	13,900	19	4,700			6,786	2,012	275	4,499		101,700	100,300	1,400	175,530	103
239	132,039	1	300	1	200	31,004	23,620	707	6,677		133,430	133,142	288	451,375	104
83	34,610	105	22,721	1	75	183,120	8,686	1,438	168,896	4,100	149,551	147,371	2,180	584,666	105
421	199,046					29,842	6,143	1,455	15,578	6,166	289,759	289,154	605	655,142	106
4	1,767	25	6,428			23,024	900	91	22,033		40,536	40,528	8	90,474	107
74	40,888	31	11,273	3	416	21,619	17,960	585	3,074		52,400	51,855	545	188,750	108
40	20,576	3	550			2,605	1,190	150	965	300	8,264	8,186	78	46,300	109
106	65,890	158	40,302			123,451	6,285	2,089	115,077		599,830	596,875	3,005	1,077,450	110
148	97,132			1	149	8,517	3,612	430	3,988	437	77,166	76,742	424	275,261	111
317	119,135					18,078	6,862	1,564	8,552	1,100	339,235	338,035	5,550	676,345	112
536	295,480			7	1,148	42,662	26,168	1,535	13,314	1,585	477,095	471,692	5,403	1,147,101	113
211	104,933	76	19,137			19,056	5,280	2,344	11,432		62,294	64,920	17,874	291,032	114
1,249	685,980	335	93,516	33	4,626	177,234	60,272	7,258	77,614	32,090	866,618	839,757	26,851	2,513,468	115
25	15,258	6	1,560	10	1,402	133,830	2,220	3,172	76,793	51,645	22,030	21,750	330	250,168	116
941	651,043	88	29,773	15	2,332	587,585	46,792	17,481	389,635	133,677	835,975	820,038	15,942	3,546,013	117
54	23,612	236	64,233	2	208	74,765	8,830	940	65,495		283,552	281,450	2,072	620,170	118
148	74,430			1	104	84,441	9,492	1,842	22,457	650	428,925	426,516	2,409	684,135	119
456	208,966	12	4,312	10	1,429	62,239	11,561	4,713	45,965		682,444	678,763	3,681	1,194,474	120
428	206,183					70,300	7,100	1,950	61,250		340,199	334,322	5,877	773,051	121
29	15,057					2,959	1,614	65	1,230		23,257	21,987	1,270	58,954	122
8	4,841	1	150			2,163	963	13	1,182		10,055	10,005	50	29,250	123
103	32,899					15,047	960	445	2,142	11,500	24,254	23,873	381	98,114	124
50	26,728	407	85,110	1	104	41,686	9,696	490	14,133	17,367	268,071	265,830	2,241	561,951	125
772	375,863	10	2,600	19	4,228	419,379	23,322	18,505	382,552		8,033,282	8,042,233	41,049	9,532,037	126
55	31,930					18,510	780	315	16,915		723,370	719,620	3,750	833,120	127
287	121,998	159	34,526	6	934	71,558	9,125	6,753	47,680	3,000	1,279,312	1,265,934	13,378	1,877,062	128
31	9,845	60	5,000			10,575	1,265	609	8,701		106,823	105,915	908	213,736	129
85	32,193					6,997	3,940	1,357	1,700		138,860	136,220	2,640	244,200	130
283	169,709			5	2,000	48,412	6,030	3,032	25,027	9,323	295,915	291,667	4,248	658,373	131

TABLE 8.—MANUFACTURES IN CITIES

CINCINNATI—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
132	Stencils and brands	4	\$113,600	\$33,000	\$50,000	\$22,100	\$8,500	6	4	\$2,516	31	\$19,008
133	Stereotyping and electrotyping	4	50,300			22,400	27,900	8	20	16,218	45	84,001
134	Surgical appliances	6	16,895	1,000	1,000	2,075	12,220	3			24	6,474
135	Tinsmithing, coppersmithing, and sheet-iron working.	127	659,911	34,360	62,615	147,395	426,541	193	54	40,618	748	328,453
136	Tobacco, chewing, smoking, and snuff.	11	615,188	5,000	20,870	48,387	540,931	12	37	44,940	292	121,716
137	Tobacco, cigars and cigarettes	235	2,051,572	27,775	54,050	141,378	1,828,369	335	168	167,792	3,603	1,258,184
138	Tools, not elsewhere specified	10	66,907			24,501	42,496	11	11	11,324	67	30,834
139	Toys and games	6	10,700			2,950	7,750	6	1	1,400	31	10,725
140	Trunks and valises	9	109,181			10,214	158,967	15	13	12,600	158	65,714
141	Umbrellas and canes	7	44,700			2,200	42,500	7	13	7,048	45	18,332
142	Varnish	8	352,500	41,900	23,100	80,500	257,000	9	25	30,950	37	26,260
143	Washing machines and clothes wringers.	6	19,825			3,825	16,000	7	4	1,820	42	21,248
144	Watch, clock, and jewelry repairing.	107	60,966	100	100	26,470	34,299	128			113	60,466
145	Wirework, including wire rope and cable.	7	21,540	2,500	1,800	6,755	10,485	10	6	2,640	27	10,966
146	Wood, turned and carved	19	421,115	73,450	52,500	103,645	191,620	19	12	18,623	167	70,418
147	All other industries ¹	108	15,328,859	1,410,286	2,838,823	6,219,693	4,860,057	85	434	511,617	3,697	1,507,355

¹ Embraces artificial limbs, 2; axle grease, 1; babbitt metal and solder, 1; bells, 1; belting and hose, leather, 2; bicycles and tricycles, 1; blacking, 1; bone, ivory, and lamp black, 1; buttons, 2; calcium lights, 1; carriages and sleds, children's, 1; cheese and butter, urban dairy products, 2; coke, 1; cordage and twine, 1; cordials and sirups, 2; cork, cutting, 1; corsets, 1; cotton goods, 2; cotton waste, 1; dentists' materials, 1; engravers' materials, 1; files, 2; fire extinguishers, chemical, 1; fireworks, 1; flags and banners, 2; fruits and vegetables, canning and preserving, 1; fur hats, 1; galvanizing, 1; gas and lamp fixtures, 2; gas and oil stoves, 1; gas, illuminating and heating, 1; gloves and mittens, 1; glue, 1; gold and silver, leaf and foil, 2; gold and silver, reducing and refining, not from the ore, 2; hardware, saddlery, 2; ink, printing, 2; ink, writing, 2; iron and steel, 1; lard, refined, 1; lasts, 1; lead, bar, pipe, and sheet, 1; lime and cement, 1; mirrors, 2; mucilage and

CLEVELAND.

		2,927	\$98,303,682	\$7,649,793	\$12,094,490	\$28,116,093	\$50,443,306	3,073	5,410	\$5,732,145	58,810	\$27,892,689
1	All industries											
2	Awnings, tents, and sails	6	245,065	54,000	32,372	13,328	144,865	4	35	32,400	100	43,190
3	Baking and yeast powders	4	65,631			6,100	69,581	4	11	9,340	34	13,904
4	Bicycle and tricycle repairing	68	30,332	300	870	12,225	16,937	74	1	1,040	62	32,126
5	Bicycles and tricycles	12	317,204	21,400	30,852	439,554	275,398	11	52	48,595	618	210,238
6	Blacksmithing and wheelwrighting	162	118,564	34,215	31,010	19,000	34,339	174			213	132,116
7	Bookbinding and blank book making	11	72,350			29,500	42,850	16	4	3,776	82	27,988
8	Boots and shoes, custom work and repairing.	236	66,129	10,275	18,162	12,501	16,191	242	3	950	91	42,409
9	Boots and shoes, factory product	5	229,597		1,200	39,815	188,582	9	21	23,600	438	112,076
10	Bottling	10	135,475	10,000	5,000	5,775	114,700	15	14	8,938	24	13,490
11	Boxes, cigar	4	80,300	6,500	4,300	2,321	17,179	6	4	2,300	42	11,096
12	Boxes, fancy and paper	5	127,824			73,995	53,829	4	11	12,050	314	87,673
13	Boxes, wooden packing	9	403,901	10,755	39,692	62,636	290,769	7	18	14,765	343	144,198
14	Brass castings and brass finishing	9	117,097	24,000	15,500	44,827	32,770	14	12	12,641	156	69,732
15	Brassware	3	478,618	10,000	44,000	80,000	344,518	2	26	34,360	273	164,871
16	Bread and other bakery products	104	724,266	122,600	149,615	233,015	169,036	103	113	84,825	552	285,439
17	Brick and tile	10	339,400	153,000	84,800	63,400	33,700	13	6	5,030	216	119,654
18	Bridges	3	1,131,158	64,746	113,566	399,657	558,139	27	27	43,519	524	237,525
19	Brooms and brushes	12	77,417	6,660	2,700	19,378	49,639	11	10	9,540	132	44,765
20	Carpentering	76	243,090	23,110	25,475	30,455	164,050	93	10	6,320	628	345,323
21	Carpets, rag	13	10,420	1,075	1,275	3,400	4,670	14	2	1,170	26	11,256
22	Carriages and wagons	43	481,147	66,050	67,920	46,200	300,977	60	32	23,095	465	253,971
23	Cars and general shop construction and repairs by steam railroad companies.	7	564,011	37,221	67,825	187,125	221,840		74	54,571	1,155	609,100
24	Chemicals	6	2,156,143	257,930	211,923	547,340	1,138,950	1	114	188,984	356	203,539
25	Cleansing and polishing preparations	3	2,365			360	2,005	4	1	156	3	1,530
26	Clothing, men's, custom work and repairing.	277	558,459	54,935	46,615	33,385	423,624	304	42	30,690	678	301,158
27	Clothing, men's, factory product	118	1,315,369	13,785	23,720	52,137	1,725,727	156	111	119,265	1,467	480,763
28	Clothing, men's, factory product, buttonholes.	3	3,050	100	600	1,350	1,000	4			30	11,450
29	Clothing, women's, dressmaking	42	29,314	4,600	3,800	4,599	16,315	47	4	1,660	182	52,705
30	Clothing, women's, factory product	77	1,598,155	9,625	13,520	73,504	1,501,506	91	218	221,409	2,362	842,425
31	Confectionery	24	432,405	20,700	26,350	93,335	291,520	24	43	37,921	506	144,913
32	Cooperage	6	243,725	11,025	26,750	19,775	191,175	6	8	17,400	179	78,832
33	Corsets	3	1,400			400	1,000	3	1	260	14	3,502
34	Dyeing and cleaning	28	51,975	14,650	12,200	13,205	11,920	37	9	3,926	89	37,799
35	Electrical apparatus and supplies	26	3,884,076	147,930	391,487	1,238,508	1,556,151	8	180	183,707	1,961	820,334
36	Electrical construction and repairs	9	29,433	100	500	8,433	20,450	10	5	2,332	75	31,523
37	Electroplating	5	22,300			14,500	8,300	4	3	1,372	64	19,650
38	Engraving and diesinking	3	1,400			450	950	4			2	1,750
39	Engraving, steel, including plate printing.	5	20,500			9,000	11,500	4	6	2,440	52	21,745
40	Flavoring extracts	5	126,192	10,000	21,000	9,000	85,192	2	18	18,160	49	18,822
41	Flouring and grist mill products	4	395,500	16,000	48,250	133,750	198,500	3	15	15,920	60	35,730
42	Food preparations	11	79,512	7,212	21,500	12,707	38,093	12	15	10,724	88	26,955
43	Foundry and machine shop products	127	11,683,326	804,246	1,624,857	2,662,557	6,596,666	100	719	793,523	8,658	4,437,338
44	Fur goods	10	66,145			2,145	64,000	12	2	1,158	56	27,409
45	Furnishing goods, men's	3	20,150			3,350	16,800	6	105	10,956	22	6,500
46	Furniture, cabinetmaking, repairing, and upholstering.	40	130,961	2,900	11,295	11,348	105,418	42	23	23,938	173	94,711

BY SPECIFIED INDUSTRIES: 1900—Continued.

CINCINNATI—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
26	\$18,418			5	\$590	\$3,494	\$960	\$876	\$1,658		\$4,705	\$4,420	\$285	\$13,168	132
45	34,001					7,037	2,460	363	4,214		15,340	12,856	2,484	96,369	138
9	5,880	14	\$3,386	1	208	2,201	1,356	60	785		5,615	5,365	250	27,020	134
678	315,011	28	6,211	42	7,231	74,876	28,545	4,388	41,748	\$195	792,768	785,777	6,991	1,521,684	135
151	72,490	141	49,226			1,047,285	8,078	2,183	1,037,024		688,052	688,584	4,468	1,987,404	136
1,301	612,284	2,217	631,184	85	14,716	1,146,784	65,290	5,989	1,075,505		1,576,715	1,571,367	5,348	4,781,003	137
56	30,584	1	250			11,243	2,915	208	7,943		54,843	53,386	1,457	134,962	138
18	7,940	13	2,785			2,332	1,072		1,060	700	7,912	7,702	210	31,500	139
154	65,274	1	140	3	300	10,718	7,770	502	2,446		151,539	150,914	625	274,084	140
15	6,612	30	8,720			4,753	3,208	355	1,190		41,506	41,038	472	77,900	141
37	26,260					41,775	4,700	1,425	35,650		230,926	225,867	4,459	410,715	142
42	21,248					3,678	2,675	238	765		65,091	63,545	1,546	111,650	143
98	56,643	11	3,404	4	419	15,129	12,988	184	1,702	360	34,708	33,494	1,214	192,830	144
26	10,786			1	180	3,915	1,225	240	1,450	1,000	35,540	34,795	745	66,550	145
167	70,418					21,776	5,722	2,039	6,965	7,000	260,835	257,849	2,986	461,571	146
2,580	1,292,714	1,091	210,309	26	4,332	676,299	78,715	112,602	484,982		6,396,208	6,243,852	92,356	10,850,519	147

paste, 2; oil, cottonseed and cake, 1; oil, not elsewhere specified, 1; paper hangings, 2; pens, fountain and stylographic, 1; pens, gold, 1; pens, steel, 1; photographic apparatus, 1; photographic materials, 1; pipes, tobacco, 1; plated and britannia ware, 2; printing materials, 2; pumps, not including steam pumps, 1; rubber and elastic goods, 1; sausage, 2; scales and balances, 2; sewing machine attachments, 1; shoddy, 1; show cases, 2; silversmithing, 1; smelting and refining, not from the ore, 2; springs, steel, car and carriage, 1; starch, 1; stationery goods, not elsewhere specified, 1; steam packing, 2; sugar and molasses, refining, 1; taxidermy, 2; in and terne plate, 2; type founding, 1; typewriter repairing, 1; upholstering materials, 2; vinegar and cider, 2; watch cases, 1; window shades, 2; wool pulling, 1.

CLEVELAND.

49,240	\$25,582,476	9,074	\$2,216,588	406	\$93,025	\$11,565,697	\$1,040,108	\$515,999	\$7,844,372	\$2,165,218	\$71,597,595	\$68,738,606	\$2,858,899	\$139,849,806	1
55	29,490	45	13,700			16,645	2,439	1,315	12,641	250	118,611	117,477	1,134	251,862	2
18	10,572	11	2,756	5	576	8,671	3,350	77	5,244		79,866	78,181	1,685	154,125	3
56	31,613			6	613	12,530	9,411	94	2,775	250	54,997	54,288	709	151,400	4
597	196,315	21	13,893			44,082	6,194	3,569	34,319		419,917	410,971	8,946	862,924	5
207	131,292			6	824	25,403	20,775	1,099	3,114	415	106,564	100,232	6,232	443,952	6
30	18,880	40	8,588	3	520	7,071	4,380	189	2,402	100	26,586	25,776	810	92,835	7
80	41,801	1	468	1	140	22,236	19,257	760	1,811	458	73,203	71,895	1,308	264,703	8
234	69,494	204	42,582			20,919	5,125	282	15,512		336,272	334,255	2,017	552,335	9
20	11,860	4	2,130			9,617	3,010	1,848	4,759		135,507	134,127	1,380	249,480	10
17	4,820	25	6,276			1,702	860	163	679		25,060	24,142	918	47,600	11
70	33,895	244	53,778			14,877	3,120	420	6,337		99,472	97,742	1,730	270,340	12
333	142,698			10	1,500	52,602	9,900	1,460	41,242		503,845	501,336	2,509	317,592	13
156	69,792					5,300	1,060	1,332	2,664	194	143,863	139,377	4,486	276,647	14
258	159,966	15	4,905			51,207	1,100	2,120	47,987		217,965	214,099	3,866	654,800	15
486	256,925	108	26,704	8	1,810	50,504	14,138	6,494	29,372		892,371	869,177	23,194	1,525,397	16
214	119,414			2	240	17,010	3,300	1,983	10,927	800	61,324	11,662	49,662	280,854	17
524	237,525					177,019	150	3,732	23,117	150,000	1,041,898	1,025,846	16,052	2,416,595	18
81	33,635	51	11,180			8,906	3,350	308	5,338		128,874	128,046	828	223,985	19
626	304,923	2	400			106,166	11,939	1,526	17,436	75,265	615,943	612,711	3,232	1,310,245	20
18	8,656	8	2,600			1,896	896	62	4,175		4,175	384		30,942	21
465	253,971					47,862	20,262	2,936	20,494	4,170	277,971	270,876	7,095	729,292	22
1,152	608,099	3	1,001			32,512		5,347	27,165		513,764	510,904	2,860	1,209,947	23
356	203,539					83,792	2,060	9,310	72,422		909,722	858,101	51,621	1,729,313	24
3	1,580					745	156	14	875	200	4,016	3,981	35	12,947	25
448	248,269	211	50,448	19	2,441	405,929	81,999	2,943	30,232	290,705	657,249	650,214	7,035	1,857,772	26
494	221,251	967	258,811	6	701	409,058	35,980	11,377	51,572	310,129	1,871,254	1,861,163	10,091	3,410,299	27
14	7,740	15	3,510	1	200	1,630	600	8	1,072		1,425	1,180	245	19,750	28
16	9,666	166	43,039			11,926	9,475	116	1,985		44,443	43,457	986	157,127	29
869	470,133	1,491	372,042	2	200	304,419	41,847	3,580	33,467	176,525	2,444,826	2,433,301	11,525	4,213,248	30
118	68,068	384	76,345	4	500	255,917	23,152	964	231,801		669,939	665,176	4,823	1,705,311	31
170	71,552			9	2,280	6,486	915	1,317	4,254		102,899	102,659	240	225,328	32
		13	3,352	1	150	853	660	10	183		3,247	3,235	12	12,800	33
42	24,969	46	12,680	1	150	17,079	7,170	567	7,152	2,200	14,023	11,651	2,372	131,600	34
1,612	744,553	334	71,681	15	4,150	375,763	135,671	15,469	222,358	2,255	1,601,653	1,477,978	123,675	3,357,923	35
71	30,479	3	850	1	200	5,722	2,364	98	3,260		65,999	65,522	477	136,821	36
64	19,650					3,747	1,970	107	1,670		14,369	13,185	1,184	63,320	37
2	1,750					363	310	3	50		360	360		5,200	38
84	18,360	18	3,385			6,145	3,680	5	2,460		31,933	31,683	300	86,000	39
19	8,060	30	5,762			10,436	2,705	495	7,236		112,588	111,803	695	218,735	40
60	35,730					7,369	240	3,052	4,077		633,535	674,860	8,675	770,326	41
33	14,944	55	12,011			10,373	3,265	531	6,577		93,832	90,627	3,205	176,806	42
8,469	4,451,093	181	83,734	8	2,571	1,180,872	63,177	51,673	803,185	257,837	6,008,074	6,429,699	268,375	15,428,053	43
19	15,441	36	11,818	1	150	18,550	8,355	245	9,250		90,040	89,884	156	180,545	44
3	1,000	19	5,500			3,092	863	14	2,915		31,093	33,653	305	73,001	45
157	90,759	14	3,748	2	204	19,075	10,388	617	8,045	25	171,671	169,336	1,835	373,777	46

TABLE 8.—MANUFACTURES IN CITIES

CLEVELAND—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
47 Furniture, factory product.....	18	\$968,884	\$84,400	\$196,500	\$100,853	\$527,131	20	59	\$64,300	420	\$213,410
48 Gas and lamp fixtures.....	5	162,293			47,001	115,292	8	37	27,839	202	76,374
49 Gas and oil stoves.....	4	1,867,307	124,507	290,615	806,803	1,136,882	62	91	91,896	1,136	523,287
50 Glass, cutting, staining, and ornament- ing.....	3	4,000			400	8,600	3			8	6,920
51 Hairwork.....	9	14,115			1,765	12,350	9			27	8,175
52 Hardware.....	7	1,457,340	92,577	322,500	269,115	773,148	8	61	79,273	1,648	709,498
53 Hats and caps, not including fur hats and wool hats.....	8	185,831	3,120	9,415	42,292	131,001	13	12	9,449	327	122,907
54 Hosiery and knit goods.....	6	289,499			54,468	184,976	7	7	10,780	541	130,974
55 House furnishing goods, not elsewhere specified.....	6	483,812	20,400	83,657	252,617	127,108	1	27	29,812	266	85,733
56 Ice, manufactured.....	4	193,654	36,250	37,566	81,549	38,289	1	12	11,020	26	19,203
57 Instruments, professional and scientific.....	5	58,647			18,279	40,368	9	6	8,224	48	18,885
58 Iron and steel.....	15	14,616,917	1,481,250	2,088,162	3,953,401	7,144,104	213	230	230,968	6,915	4,014,589
59 Iron and steel, bolts, nuts, washers, and rivets.....	7	712,045	24,868	95,738	206,613	385,831	6	50	79,972	1,305	558,261
60 Iron and steel, forgings.....	5	1,906,496	165,416	346,339	637,744	756,997	3	41	69,938	897	448,326
61 Ironwork, architectural and orna- mental.....	11	467,528	75,150	80,678	108,900	292,800	9	48	60,932	469	234,081
62 Jewelry.....	6	20,710			11,200	9,510	6			32	15,161
63 Leather, tanned, curried, and finished.....	3	171,198	26,700	34,600	26,650	83,248	5	10	9,314	44	17,900
64 Lime and cement.....	3	57,120		3,500	8,050	45,570	1	10	10,000	29	13,000
65 Liquors, malt.....	10	3,783,202	295,152	1,238,528	1,056,568	1,197,959	10	95	173,554	477	381,780
66 Lithographing and engraving.....	4	853,794			201,050	152,744	3	22	49,760	142	82,200
67 Lock and gun smithing.....	17	10,471	3,400	550	2,770	8,751	19			7	2,690
68 Looking-glass and picture frames.....	14	71,775	13,500	5,500	7,150	45,625	16	4	2,924	55	23,204
69 Lumber, planing mill products, includ- ing sash, doors, and blinds.....	26	858,918	140,400	91,541	187,921	434,056	27	64	70,094	710	321,671
70 Malt.....	3	62,750	27,000	8,750	4,500	22,500	5	8	2,150	12	10,435
71 Marble and stone work.....	6	291,629	48,110	23,300	73,651	146,568	4	28	43,550	415	235,708
72 Masonry, brick and stone.....	8	124,095	7,700	5,900	17,516	92,950	12	20	17,601	243	124,176
73 Mattresses and spring beds.....	4	70,675	4,000	5,000	10,976	60,699	2	17	14,909	137	54,810
74 Millinery and lace goods.....	8	38,044	3,000	7,000	6,497	71,547	16	11	7,616	147	30,056
75 Millinery, custom work.....	79	163,903	41,900	30,800	8,303	82,900	39	39	20,390	286	82,358
76 Mineral and soda waters.....	6	39,950	4,000	3,500	11,700	20,750	6	6	3,940	24	13,776
77 Models and patterns.....	13	75,303	5,000	16,500	10,400	43,403	14	4	6,300	117	55,269
78 Monuments and tombstones.....	13	51,010	7,500	5,175	4,275	34,060	17	3	2,075	56	43,735
79 Oil, not elsewhere specified.....	13	661,905	11,500	25,241	61,575	566,599	11	134	134,924	89	43,304
80 Optical goods.....	8	12,253			2,953	9,300	2			13	9,000
81 Painting, house, sign, etc.....	64	148,190	11,255	15,375	15,816	105,744	76	27	20,096	418	211,029
82 Paints.....	9	1,346,195	105,100	171,781	185,637	833,677	5	221	270,671	343	146,425
83 Paper hanging.....	36	34,732	3,650	6,500	4,361	70,231	46	17	14,641	171	97,473
84 Patent medicines and compounds.....	10	147,136	6,700	1,900	10,927	127,609	8	29	30,780	42	19,153
85 Paving and paving materials.....	9	311,173	44,083	22,275	75,690	169,145	9	34	31,250	675	281,119
86 Petroleum, refining.....	4	5,933,713	716,576	476,734	2,605,496	2,184,912	2	141	125,331	477	243,559
87 Photography.....	42	57,736	700	1,350	31,466	24,220	49	5	2,140	77	41,428
88 Photolithographing and photoengrav- ing.....	8	16,200			8,500	7,700	2	8	5,657	35	16,920
89 Plumbers' supplies.....	7	198,096	20,937	17,467	58,631	101,061	6	26	22,870	148	67,336
90 Plumbing, and gas and steam fitting.....	95	505,255	29,628	53,800	70,448	351,379	117	45	33,128	729	463,290
91 Printing and publishing, book and job.....	69	1,107,419	2,250	23,075	694,909	387,185	73	150	141,306	981	496,319
92 Printing and publishing, newspapers and periodicals.....	38	1,672,687	94,700	177,321	614,383	786,283	23	268	276,006	710	491,868
93 Pumps, not including steam pumps.....	3	10,550	1,000	500	800	8,250	5	1	600	10	4,940
94 Roofing and roofing materials.....	8	129,190	21,856	20,319	5,974	81,011	10	12	9,718	96	52,379
95 Rubber and elastic goods.....	3	1,230,079	19,066	96,250	64,032	1,050,731	54	54	67,216	697	232,158
96 Saddlery and harness.....	57	125,750	12,125	8,425	39,800	65,400	61	8	2,080	86	45,654
97 Sewing machines and attachments.....	3	2,575,208	31,000	172,781	421,589	1,899,817	115	159	159,767	724	401,206
98 Ship and boat building, wooden.....	3	9,025		500	1,825	6,700	4			42	21,400
99 Shirts.....	4	32,090			2,215	29,875	6			62	10,496
100 Shoddy.....	4	1,244,898	108,000	118,000	358,500	660,396	31	31	51,200	388	141,114
101 Slaughtering and meat packing, whole- sale.....	10	1,827,283	66,565	104,813	74,626	1,581,279	7	173	135,866	577	235,023
102 Soap and candles.....	7	113,683	10,180	16,200	30,928	56,380	3	21	17,081	38	18,308
103 Stamped ware.....	3	521,370	56,000	80,000	269,866	116,004	1	14	15,223	297	104,376
104 Steam fittings and heating apparatus.....	4	146,136	6,000	12,000	24,666	103,520	3	10	9,760	31	18,006
105 Stencils and brands.....	3	13,790			3,500	5,200	3			10	5,905
106 Stereotyping and electrotyping.....	4	34,918			50,998	34,010	3	8	8,950	101	53,738
107 Surgical appliances.....	3	1,386			1,186	700	3			4	1,102
108 Tinsmithing, coppersmithing, and sheet-iron working.....	97	230,107	39,775	35,275	71,695	133,362	112	33	28,289	382	206,749
109 Tobacco, cigars and cigarettes.....	117	455,477	23,731	29,975	24,165	377,606	130	51	52,565	943	347,661
110 Tools, not elsewhere specified.....	8	984,053	55,700	147,332	356,218	424,733	7	59	56,480	568	260,364
111 Trunks and valises.....	4	85,900	13,000	30,000	9,400	28,500	3	18	9,050	121	46,555

BY SPECIFIED INDUSTRIES: 1900—Continued.

CLEVELAND—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
400	\$211,000	3	\$700	8	\$1,530	\$51,328	\$11,852	\$2,912	\$31,064	\$5,500	\$510,501	\$505,378	\$5,123	\$1,020,569	47
178	68,539	29	7,835			24,590	3,656	156	15,778	6,000	101,471	98,951	2,520	251,599	48
1,130	528,287					110,306		7,491	102,815		1,057,231	1,084,546	22,688	1,905,391	49
8	6,920					1,174	1,044	10	120		8,400	8,330	70	19,600	50
2	1,680	25	6,495			6,621	5,750	108	705		7,859	7,680	179	32,150	51
1,506	677,290	112	25,203	80	6,915	211,451	450	8,888	202,118		488,422	429,068	58,751	1,653,374	52
127	69,396	200	53,511			20,969	8,681	982	11,306		298,958	293,258	5,700	499,789	53
52	25,900	489	105,074	1	258	49,641	8,790	238	15,618	25,000	387,215	384,291	2,924	748,012	54
256	88,449	9	2,026			5,582	5,580	1,167	3,835		293,148	293,003	4,145	511,732	55
26	19,203					13,630	400	6,765	6,465		30,500	10,500	20,000	95,100	56
44	18,061	4	824			3,339	1,372	107	1,860		15,749	15,214	535	59,280	57
6,811	3,999,711	103	14,518	1	360	1,220,277	10,000	39,788	1,149,736	20,753	13,490,450	12,149,202	1,341,248	24,276,197	58
1,023	498,835	44	9,426	233	45,000	45,639	7,930	8,699	34,460		1,555,760	1,511,530	44,230	2,405,856	59
837	445,206	10	3,120			42,125		6,144	85,981		961,599	886,002	73,597	1,874,029	60
466	233,301	3	780			36,205	1,535	3,725	90,945		468,124	449,430	8,694	875,908	61
32	15,161					2,050	1,716	56	278		14,454	13,959	495	44,400	62
44	17,900					8,628	681	7,947	7,947		105,372	102,879	2,493	150,577	63
29	13,000					10,012	3,300	235	4,027	2,400	71,380	67,020	4,360	182,500	64
477	881,780					1,447,552	480	28,955	1,418,117		840,394	785,386	55,008	4,033,915	65
135	80,300	6	1,690	1	210	18,293	6,000	938	11,855		80,827	76,240	4,587	309,300	66
7	2,690					2,032	1,618	28	386		3,886	3,586	300	21,560	67
46	21,958	1	156	8	1,090	11,694	5,855	350	5,489		80,232	79,467	765	160,031	68
710	321,671					97,177	15,739	7,169	67,702	6,567	579,083	568,863	10,220	1,236,944	69
12	10,435					2,907	1,120	817	970		49,440	46,475	2,965	77,950	70
415	235,708					20,645	1,635	1,833	15,042	2,185	72,382	57,514	14,868	420,568	71
243	124,176					448,698	1,525	236	1,862	440,075	154,746	158,940	805	855,020	72
88	38,590	49	16,220			16,259	3,320	530	11,409		164,605	163,098	1,507	285,714	73
9	6,652	138	23,404			6,102	3,680	393	2,029		200,252	199,668	585	299,440	74
2	1,200	282	80,987	2	171	42,892	81,477	1,245	10,170		276,948	276,046	902	561,216	75
24	13,775					3,069	1,500	236	1,333		20,084	19,735	349	58,637	76
113	54,099	4	1,170			5,032	2,071	347	2,614		22,447	21,136	1,311	123,185	77
56	43,735					3,153	1,710	330	838	300	120,303	119,410	893	195,470	78
89	43,304					125,730	6,856	1,279	116,232	1,359	831,769	824,360	7,409	1,421,089	79
13	9,000					2,324	2,037	39	638		14,400	14,175	225	41,500	80
410	209,447	4	624	4	953	20,322	12,341	1,118	6,378	490	174,900	174,053	847	571,459	81
271	120,638	72	25,787			321,690	7,390	10,467	803,833		1,308,492	1,291,156	12,336	2,192,258	82
147	90,586	22	6,705	2	182	14,577	3,887	536	4,754	400	106,277	105,982	295	317,781	83
24	15,164	18	5,999			25,005	4,476	464	20,065		84,129	83,546	583	213,635	84
675	281,119					23,093	1,032	1,255	15,585		287,816	284,976	2,841	747,842	85
436	234,405	41	9,094			446,029	4,747	44,541	396,741		1,973,473	1,851,671	121,802	2,963,169	86
46	30,308	30	10,990	1	130	21,263	17,092	229	3,682	260	50,694	50,105	589	181,510	87
35	16,920					4,694	1,424	65	1,925	1,250	4,750	3,950	800	44,000	88
147	66,816			1	520	29,550	4,580	1,255	23,715		150,880	146,222	4,658	323,608	89
728	463,051			1	236	54,258	21,305	2,126	22,477	8,350	1,033,323	1,032,139	7,784	1,919,734	90
772	436,792	195	57,253	14	2,274	117,034	46,169	3,343	49,307		700,052	683,160	16,892	1,737,106	91
629	468,835	71	21,395	10	1,588	378,282	25,468	7,119	277,878	67,822	485,423	468,355	17,068	2,073,324	92
10	4,940					980	280	50	650		13,970	13,880	90	80,900	93
95	52,145	1	234			6,078	2,345	462	3,271		149,703	149,157	546	253,841	94
427	144,939	251	81,569	19	4,500	40,397	650	3,100	36,847		1,045,927	1,027,725	18,202	1,494,369	95
85	46,554	1	100	1		11,503	8,131	501	2,521	350	82,992	81,967	1,025	197,429	96
699	396,022	12	3,000	13	2,184	115,920	500	11,570	108,850		860,832	855,479	5,353	1,759,320	97
42	21,400					1,603	1,450	8	145		13,200	12,885	315	43,950	98
24	1,664	53	8,332			3,410	1,032	25	2,353		38,310	38,310	415	66,370	99
188	87,379	210	53,735			63,246	240	4,682	58,324		945,313	925,613	19,700	1,308,167	100
559	229,407	18	5,616			175,132	180	5,524	169,423		6,759,023	6,733,093	25,930	7,514,470	101
36	17,858	2	450			9,661	1,640	487	6,442	1,092	105,305	101,509	3,796	173,650	102
286	103,129	11	1,247			16,945	500	1,562	14,883		158,664	151,455	7,209	325,910	103
31	13,006					5,709	1,300	386	4,023		56,839	56,213	626	143,300	104
10	5,905					1,605	1,010	45	450	100	4,760	4,625	135	19,500	105
100	53,388			1	350	17,481	3,756	331	13,394		17,710	15,740	1,970	117,442	106
1	144	2	808	1	150	601	385	4	212		1,075	1,065	10	10,300	107
377	205,351	2	590	3	808	39,607	16,042	1,817	20,748	1,000	324,910	320,769	4,141	759,823	108
515	242,896	426	104,561	2	201	276,227	22,069	2,055	252,103		410,193	407,310	2,883	1,261,012	109
468	240,364	100	20,000			77,346	2,800	3,337	71,209		264,504	257,109	7,395	890,342	110
98	40,576	20	4,512	3	468	8,591	2,700	691	5,200		75,687	74,300	1,387	103,000	111

TABLE 8.—MANUFACTURES IN CITIES

CLEVELAND—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
112 Umbrellas and canes	5	\$34,440	\$400	\$200	\$3,890	\$30,450	7	6	\$2,800	34	\$10,885
113 Varnish	7	458,770	23,841	71,252	43,019	320,658	7	67	93,678	48	35,182
114 Watch, clock, and jewelry repairing	71	53,025	3,650	2,650	19,645	27,080	68	47	43,272	78	46,666
115 Wirework, including wire rope and cable.	12	895,129	45,000	136,780	271,962	441,387	6			774	285,815
116 Wood, turned and carved	11	39,670	1,400	675	18,425	19,170	11	3	1,450	63	34,882
117 All other industries ¹	103	15,189,340	1,236,005	1,206,974	6,836,680	5,910,781	91	481	580,374	6,936	3,142,932

¹ Embraces agricultural implements, 1; ammunition, 1; artificial feathers and flowers, 1; artificial limbs, 2; babbitt metal and solder, 1; bags, other than paper, 1; bags, paper, 2; belting and hose, leather, 2; billiard tables and materials, 2; boot and shoe cut stock, 1; boot and shoe uppers, 2; bronze castings, 1; bittons, 2; carriage and wagon materials, 1; carriages and sleds, children's, 1; cars, steam railroad, not including operations of railroad companies, 1; cars, street railroad, not including operations of railroad companies, 2; china decorating, 1; chocolate and cocoa products, 1; coffee and spice, roasting and grinding, 2; coffins, burial cases, and undertakers' goods, 2; cotton small wares, 1; cutlery and edge tools, 1; druggists' preparations, not including prescriptions, 2; fancy articles, not elsewhere specified, 1; files, 1; fish, canning and preserving, 1; foundry supplies, 1; galvanizing, 1; gas, illuminating and heating, 1; gas machines and meters, 1; grease and tallow, 2; hand stamps, 2; ink, printing, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, 1; japanning, 1; lamps and reflectors, 1; lead, bar, pipe, and sheet, 1; leather goods, 2; liquors, distilled, 1; liquors, vinous, 2; lumber and timber products, 1; mullage and paste, 1; musical instruments and

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1 All industries	914	\$25,892,186	\$2,456,310	\$3,644,451	\$6,906,520	\$12,324,816	968	1,759	\$1,044,304	17,066	\$7,718,824
2 Awnings, tents, and sails	3	10,800			8,500	7,300	2	2	1,100	21	8,250
3 Bicycle and tricycle repairing	20	16,420	850	1,450	9,855	4,265	19	1	200	20	6,616
4 Blacksmithing and wheelwrighting	69	42,862	16,985	8,265	8,245	9,367	76	4	1,000	94	50,305
5 Bookbinding and blank book making	6	47,000			17,500	29,500	7	7	5,500	59	23,519
6 Boots and shoes, custom work and repairing.	57	10,359	2,990	1,125	4,300	1,944	60			13	5,765
7 Boots and shoes, factory product	8	1,094,542	12,000	39,381	131,025	1,512,136	1	151	201,314	1,880	683,401
8 Boxes, wooden packing	5	37,347	6,375	6,578	9,758	14,686	4	5	3,222	59	17,322
9 Brass castings and brass finishing	3	37,554	4,000	7,416	13,346	12,792	2	8	4,000	36	16,226
10 Bread and other bakery products	30	456,707	69,025	84,340	174,443	128,959	30	78	56,738	286	112,525
11 Brick and tile	5	19,565	6,500	3,265	4,750	5,050	6	1	800	62	23,889
12 Brooms and brushes	4	71,851	3,600	8,650	6,252	53,349	6	8	6,600	53	17,270
13 Carpentering	10	29,700	1,800	2,400	3,275	22,225	11			62	36,318
14 Carpets, rug	3	9,357			5,900	3,457	3	1	864	38	8,992
15 Carriage and wagon materials	4	59,425	100	500	31,100	27,725	4	6	8,700	161	60,165
16 Carriages and wagons	20	1,597,006	265,531	346,310	82,911	902,254	28	109	84,632	1,026	417,856
17 Cars and general shop construction and repairs by steam railroad companies.	0	1,349,749	240,841	294,200	202,048	613,160		90	76,829	2,104	1,141,352
18 Clothing, men's, custom work and repairing.	61	126,230	3,000	2,900	13,567	106,763	70	19	17,988	369	169,244
19 Clothing, women's, dressmaking	17	6,358			2,473	3,885	22	6	6,660	99	31,586
20 Coffee and spice, roasting and grinding	3	63,500			20,350	48,150	2	70	34,961	27	12,200
21 Confectionery	15	75,559	1,000	900	13,775	59,884	18	23	18,660	154	38,341
22 Dyeing and cleaning	9	24,380	11,750	4,610	4,910	3,110	8	2	600	16	8,082
23 Electrical construction and repairs	6	18,825			3,625	15,200	8	5	3,330	32	17,040
24 Electroplating	3	9,300		800	6,200	2,300	2	1	900	21	8,922
25 Flouring and grist mill products	3	150,900	9,400	28,000	41,200	81,300	1	11	13,360	29	16,266
26 Foundry and machine shop products	35	3,953,271	359,010	531,656	854,745	2,204,860	31	194	250,677	2,824	1,368,711
27 Furniture, cabinetmaking, repairing, and upholstering.	13	33,585	3,500	3,500	7,550	19,035	14	4	3,000	44	21,796
28 Furniture, factory product	4	264,599	37,659	10,000	38,125	178,815	4	33	23,716	213	66,865
29 Hats and caps, not including fur hats and wool hats.	3	1,650			560	1,090	3			7	3,460
30 Iron and steel	4	1,916,600	96,600	350,000	1,220,000	250,000		24	55,190	670	451,480
31 Iron and steel, bolts, nuts, washers, and rivets.	3	236,000	29,000	23,000	76,000	109,000	2	18	19,200	406	137,000
32 Iron and steel, forgings	3	155,000	20,000	17,000	30,000	88,000		13	17,225	163	70,820
33 Ironwork, architectural and ornamental.	4	105,600	4,000	9,000	21,200	71,400	4	8	11,040	76	31,089
34 Lime and cement	3	26,300	1,000	4,000	1,800	19,500	3	4	5,220	20	8,501
35 Liquors, malt	4	1,646,978	203,570	303,950	221,489	412,969	5	50	73,304	447	250,673
36 Lock and gun smithing	8	2,205			545		12			2	1,220
37 Looking-glass and picture frames	9	26,565			1,925	24,640	12	8	3,112	20	8,318
38 Lumber, planing mill products, including sash, doors, and blinds.	12	173,936	28,000	11,600	33,710	102,626	12	8	7,400	159	88,533
39 Marble and stone work	2	63,225	14,000	5,525	32,825	10,875	3	9	5,000	71	39,779
40 Masonry, brick and stone	23	186,809	12,180	20,155	50,875	103,589	8	6	6,900	361	240,647
41 Millinery, custom work	28	58,916	3,900	3,800	1,336	49,880	31	24	5,350	134	30,614
42 Monuments and tombstones	5	23,050	2,250	350	1,250	19,200	6	2	2,500	18	11,746
43 Optical goods	3	7,897			2,550	5,347	2	2	200	4	1,883
44 Painting, house, sign, etc	16	37,453	3,065	7,040	3,428	23,925	20	10	5,260	94	42,090
45 Paints	3	154,695	40,000	35,303	9,264	70,128	3	23	29,910	47	18,332
46 Patent medicines and compounds	7	675,495	21,300	69,350	67,505	527,340	5	30	28,045	125	46,352
47 Paving and paving materials	8	23,881	1,870	1,659	8,200	12,152	8	6	700	67	25,070
48 Photography	13	59,815			13,319	46,496	17	6	3,056	41	19,466
49 Plastering and stucco work	7	2,305	300	900	575	530	7			37	21,089
50 Plumbing and gas and steam fitting	30	83,835	2,623	1,405	7,215	72,695	43	11	4,446	169	73,260
51 Printing and publishing, book and job	22	172,060	3,000	500	116,500	52,060	25	29	22,082	206	97,045

BY SPECIFIED INDUSTRIES: 1900—Continued.

CLEVELAND—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.	
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.									
7	\$8,065	27	\$7,820			\$5,338	\$3,100	\$123	\$2,110		\$72,081	\$71,785	\$296	\$114,400
47	34,882	1	300			77,251	290	4,281	72,680		438,900	430,709	3,191	710,218
74	46,310	1	178	8	\$178	14,848	10,161	251	1,446	\$2,990	31,360	30,568	792	150,133
716	267,655	59	18,160			76,048	5,562	5,459	65,027		562,126	555,601	6,525	1,137,416
62	34,782			1	100	4,057	2,516	96	1,295	150	19,618	17,435	2,183	91,730
5,771	2,837,708	1,144	252,183	21	3,041	1,074,351	50,008	129,015	615,851	279,477	7,171,031	6,952,726	218,305	13,892,429

materials, not specified, 2; musical instruments, organs and materials, 1; musical instruments, pianos and materials, 1; oil, linseed, 1; oilcloth, floor, 1; oleomargarine, 1; paper and wood pulp, 2; paper hangings, 1; pens, fountain and stylographic, 1; plastering and stuccowork, 2; pottery, terra cotta, and fire-clay products, 2; printing and publishing, music, 2; printing materials, 1; regalia and society banners and emblems, 1; rules, ivory and wood, 1; safes and vaults, 1; salt, 1; sausage, 1; saws, 1; scales and balances, 1; screws, wood, 2; sewing machine cases, 1; sewing machine repairing, 1; shipbuilding, iron and steel, 1; show cases, 1; sporting goods, 1; springs, steel, car and carriage, 1; stationery goods, not elsewhere specified, 1; sugar and molasses, refining, 1; taxidermy, 1; tin andterne plate, 1; tobacco, chewing, smoking, and snuff, 1; typewriter repairing, 1; typewriters and supplies, 1; upholstering materials, 1; vault lights and ventilators, 1; washing machines and clothes wringers, 1; wool pulling, 1; woolen goods, 1; worsted goods, 1.

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14,528	\$7,091,119	2,269	\$580,440	269	\$47,265	\$4,014,022	\$248,685	\$172,788	\$3,356,749	\$235,805	\$20,194,532	\$19,269,281	\$925,251	\$39,666,848	1
11	5,350	10	2,900			4,107	960	65	3,082		22,759	22,485	274	48,500	2
18	6,106	2	510			2,634	2,238	187	209		17,553	17,020	533	41,819	3
93	50,130			1	175	7,363	5,893	661	809		40,441	37,625	2,815	161,349	4
27	15,320	31	8,024	1	175	16,567	4,020	357	6,490	5,700	60,128	59,025	1,102	131,741	5
13	5,765					4,395	4,158	41	196		12,932	12,419	513	53,337	6
1,203	478,687	570	181,660	107	23,054	95,242	9,805	3,619	81,813		2,141,731	2,130,290	11,441	3,505,126	7
49	16,322			10	1,000	3,801	870	183	2,748		3,801	50,374	1,502	89,782	8
36	16,226					2,791	300	91	2,400		26,150	24,799	1,351	54,592	9
286	100,023	50	12,499			68,218	7,254	4,184	66,780		460,590	449,314	11,276	810,751	10
54	22,239			8	1,650	2,533	1,740	148	645		7,537	2,097	5,440	43,100	11
43	16,070	10	1,200			15,543	150	725	2,966	11,702	50,623	49,732	891	103,694	12
62	36,318					48,506	1,234	331	2,381	44,560	59,366	59,193	173	173,384	13
17	5,840	12	2,112	9	1,040	848	802	39	7		5,984	5,310	674	26,643	14
141	56,005	20	4,180			9,623	2,160	410	7,053		172,084	168,724	3,360	304,935	15
990	409,788	26	6,568	10	1,500	130,614	11,247	15,874	103,493		1,044,017	1,031,116	12,901	2,136,467	16
2,099	1,189,276	5	2,076			137,968		11,102	126,866		872,563	856,585	15,978	2,227,710	17
253	133,047	115	36,047	1	150	32,332	24,738	1,048	6,546		186,060	183,672	2,388	545,455	18
10	5,280	89	26,306			5,232	3,944	17	1,271		21,155	20,840	315	84,785	19
19	9,307	8	2,900			5,990	3,100	890	2,000		137,885	136,555	1,330	276,236	20
70	21,861	75	15,310	9	1,170	14,827	6,264	323	8,240		105,379	103,872	2,007	243,100	21
9	5,768	7	2,314			2,681	988	370	1,323		2,384	1,876	508	22,455	22
32	17,040					3,577	1,932	39	1,606		56,292	55,919	373	112,720	23
20	8,422	1	500			720	600	55	65		1,832	1,417	415	15,700	24
29	16,266					5,661	1,774	3,887	1,774		481,454	478,044	3,410	582,236	25
2,824	1,368,711					272,004	14,497	19,456	205,592	32,489	2,185,257	2,101,354	83,903	4,629,742	26
40	20,596	3	1,000	1	200	3,355	1,668	255	1,432		11,218	10,405	813	63,408	27
177	62,472	16	3,662	20	791	29,875	1,240	1,413	13,660	13,562	205,383	201,502	3,886	427,530	28
4	2,460	3	1,000			693	517	43	133		2,509	2,500	9	9,900	29
670	451,482					125,897	2,844	2,844	123,553		3,987,393	3,404,988	582,405	5,976,028	30
392	134,500	14	2,500			23,241	2,421	2,421	20,820		189,890	185,025	4,775	390,000	31
163	70,820					7,595	3,315	100	4,180		158,662	153,807	4,855	304,098	32
73	30,099	2	840	1	150	6,331	1,950	1,066	3,305		102,897	102,137	760	170,682	33
15	7,500			5	1,001	1,043	460	133	450		25,750	24,594	1,156	49,300	34
420	246,206			27	4,472	1,010,879	40,352	40,352	976,027		497,084	461,531	35,550	2,021,407	35
2	1,220					1,226	1,036	33	152		1,366	1,063	303	7,600	36
17	7,768	2	350	1	200	6,203	3,940	209	2,054		17,452	17,213	239	58,853	37
159	88,533					11,958	7,640	2,069	2,249		120,136	114,600	5,536	284,175	38
71	39,779					2,751	825	404	1,522		33,073	32,450	623	114,060	39
361	240,647					48,593	1,375	1,641	7,977	37,900	287,966	285,684	2,282	666,430	40
1	420	131	29,954	2	240	14,166	11,582	813	1,771		112,424	111,895	559	216,941	41
18	11,746					2,833	776	360	1,171	576	50,800	50,750	50	90,586	42
3	1,780			1	153	1,607	925	74	608		2,685	2,552	133	8,935	43
93	41,830	1	260			5,849	2,226	316	3,057	250	38,814	38,675	139	114,320	44
43	17,332	4	1,000			14,246	873	13,373	13,373		115,343	114,523	820	205,449	45
47	25,952	73	20,400			607,418	4,576	1,096	601,746		476,313	472,921	3,392	1,537,494	46
67	25,070					931		223	703		53,637	53,590	57	96,069	47
26	15,180	14	4,186	1	100	13,914	8,233	150	5,476		29,467	29,220	247	98,796	48
37	21,089					494	240	43	201		15,152	15,146	6	50,171	49
168	73,000			1	260	10,835	4,825	361	5,449	200	172,646	171,531	1,112	339,654	50
150	79,260	43	16,439	3	1,296	17,874	9,272	962	6,690	950	91,183	87,407	3,781	282,915	51

TABLE 8.—MANUFACTURES IN CITIES

COLUMBUS—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
62 Printing and publishing, newspapers and periodicals.	20	\$693,791	\$51,200	\$68,000	\$322,530	\$252,061	14	141	\$104,999	445	\$287,946
63 Pumps, not including steam pumps.	4	2,120		400	535	1,185	5			8	3,332
64 Roofing and roofing materials.	17	49,267	900	1,500	11,338	86,129	27	4	2,148	114	53,837
65 Saddlery and harness.	15	210,065	39,500	20,500	7,640	142,425	15	39	29,280	118	44,027
66 Shirts.	7	12,975			4,760	8,225	8	3	1,725	49	15,018
67 Slaughtering and meat packing, wholesale.	5	152,410	13,000	47,000	23,800	68,610	11	4	2,410	73	34,290
68 Tinsmithing, coppersmithing, and sheet-iron working.	28	137,310	13,533	16,169	43,692	68,916	31	12	8,370	104	42,573
69 Tobacco, cigars and cigarettes.	31	331,634	7,985	14,765	25,507	233,437	32	22	20,087	433	112,945
60 Trunks and valises.	6	52,078			16,793	35,285	5	11	8,500	64	20,815
61 Watch, clock, and jewelry repairing.	30	19,655	1,900	750	9,055	7,950	37	1	780	47	27,469
62 Wirework, including wire rope and cable.	5	56,537	2,225	5,897	15,103	33,312	5	11	6,110	26	8,902
63 All other industries ¹ .	99	7,601,213	784,586	710,747	2,858,877	3,247,003	84	331	323,374	2,389	960,375

¹ Embraces agricultural implements, 2; art facial limbs, 1; baking and yeast powders, 1; baskets, and rattan and willow ware, 2; bicycles and tricycles, 1; boxes, cigar, 2; boxes, fancy and paper, 2; bridges, 2; cars and general shop construction and repairs by street railroad companies, 1; clocks, 1; clothing, men's, factory product, 1; clothing, women's, factory product, 1; coffins, burial cases, and undertakers' goods, 1; cooperage, 1; cordage and twine, 1; corsets, 2; cutlery and edge tools, 2; druggists' preparations, not including prescriptions, 2; engraving and diesinking, 1; engraving, steel, including plate printing, 2; fertilizers, 1; files, 1; flavoring extracts, 1; food preparations, 2; fruits and vegetables, canning and preserving, 1; fur goods, 2; furnishing goods, men's, 1; gas and lamp fixtures, 1; gas and oil stoves, 1; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; grease and tallow, 1; hairwork, 1; hammocks, 1; hand stamps, 2;

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1 All industries	1,096	\$28,027,518	\$1,822,675	\$3,936,778	\$4,861,843	\$17,406,222	1,197	1,455	\$1,570,994	16,869	\$7,959,792
2 Agricultural implements	4	2,044,429	116,843	225,124	283,299	1,439,163		77	81,987	608	303,041
3 Awnings, tents, and sails	9	7,775			1,475	6,300	8	1	800	16	6,115
4 Baskets, and rattan and willow ware	3	3,875	400	200	1,575	1,200	3	1	104	8	3,832
5 Bicycle and tricycle repairing	16	12,240			6,240	6,000	19			15	7,782
6 Blacksmithing and wheelwrighting	56	26,662	5,550	4,960	7,090	9,062	65	3	960	60	30,338
7 Boots and shoes, custom work and repairing,	63	12,009	2,370	1,955	4,290	3,394	67			21	9,359
8 Boxes, cigar	3	58,550	3,000	13,800	13,681	28,069	3	9	6,010	110	36,210
9 Boxes, fancy and paper	3	341,660			181,827	159,833	39	39	47,740	350	100,660
10 Brass castings and brass finishing	3	517,925	7,000	108,000	91,925	316,000	3	19	31,800	260	83,944
11 Bread and other bakery products	58	444,140	38,910	130,352	202,219	72,659	61	31	20,750	185	88,019
12 Brooms and brushes	4	7,455	1,130	1,800	1,350	3,675	6			20	9,877
13 Carpentry	62	55,187	10,260	11,950	9,992	22,955	70			247	132,229
14 Carpets, rag	6	2,122	350	350	222	700	6			1	468
15 Carriage and wagon materials	5	494,838	60,794	66,233	76,289	231,492	3	19	28,332	281	105,538
16 Carriages and wagons	13	222,780	41,150	50,401	12,345	118,884	22	9	13,960	205	105,221
17 Clothing, men's, custom work and repairing	63	117,775	14,350	10,775	7,375	85,275	71	13	9,900	203	89,362
18 Clothing, men's, factory product	4	250,287	6,000	16,399	26,992	200,376	5	23	26,200	234	78,660
19 Clothing, women's, dressmaking	80	23,374	400	850	6,755	16,869	30	2	2,700	220	92,844
20 Coffee and spice, roasting and grinding	3	133,300	3,000	23,000	17,300	140,000	4	18	15,080	42	16,528
21 Confectionery	17	36,485	2,300	1,100	12,210	20,875	21	19	6,337	79	24,126
22 Cooperage	4	9,612	2,300	1,525	1,687	4,100	4			18	7,110
23 Dyeing and cleaning	7	7,065	500	300	4,205	2,060	8			14	6,800
24 Electrical apparatus and supplies	5	217,081	5,600	3,600	33,881	124,000	4	13	11,990	125	57,795
25 Electrical construction and repairs	3	21,735			235	21,500	4			12	7,600
26 Flouring and grist mill products	5	211,035	12,500	72,000	56,200	70,335	5	8	15,460	46	29,500
27 Foundry and machine shop products	37	4,633,290	335,312	422,935	824,489	3,050,554	35	169	207,676	2,380	1,517,988
28 Furniture, cabinetmaking, repairing, and upholstering.	14	13,100	700	350	1,835	10,165	15			22	12,390
29 Furniture, factory product	6	805,719	53,662	226,141	90,231	435,685	1	34	31,165	403	180,701
30 Hairwork	3	910			185	725	3			3	670
31 Ironwork, architectural and ornamental.	3	13,655	7,500	1,375	3,300	930	3	4	2,000	18	8,184
32 Labels and tags	4	36,500			23,500	12,550	4	7	8,196	21	9,843
33 Liquors, malt	9	1,727,327	373,000	668,500	303,910	331,917	5	29	42,970	152	97,268
34 Lock and gun smithing	4	935			875	110	5			4	2,213
35 Looking-glass and picture frames	8	8,840	300	700	2,390	4,950	8			8	4,752
36 Lumber, planing mill products, including sash, doors, and blinds.	5	299,370	25,400	45,918	55,400	172,652	3	22	21,570	347	193,332
37 Marble and stone work	6	45,685	3,500	1,000	13,865	22,320	8	8	5,320	66	48,356
38 Masonry, brick and stone	25	46,108	3,500	3,080	9,933	29,590	26	1	350	186	122,314
39 Millinery, custom work	37	43,999	300	650	1,614	41,435	38	7	3,010	85	22,238
40 Mineral and soda waters	3	43,600			11,500	32,100	4	9	9,914	15	5,924
41 Models and patterns	7	5,195			2,525	2,670	7	1	208	15	9,260
42 Monuments and tombstones	3	15,075	300	1,200	1,715	11,360	15	4	2,230	22	10,930
43 Painting, house, sign, etc.	61	30,360	2,995	2,760	7,560	17,045	66	1	700	166	89,217
44 Paints	5	370,442	11,000	33,450	27,050	298,942	7	11	17,500	43	23,767
45 Paper and wood pulp	6	725,610	96,600	119,200	223,604	237,208	2	18	33,339	287	111,521
46 Paper hanging	3	85,555	1,200	4,150	1,075	79,130	10	6	3,108	17	8,727

BY SPECIFIED INDUSTRIES: 1900—Continued.

COLUMBUS—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
402	\$273,422	40	\$14,028	3	\$496	\$127,127	\$13,333	\$3,259	\$77,268	\$33,267	\$195,536	\$185,695	\$9,841	\$820,903	52
8	3,332					483	362	11	110		2,150	2,130	20	9,161	53
112	53,337			2	500	6,271	3,228	896	2,647		120,280	118,908	1,372	233,015	54
101	41,027			17	3,000	12,227	6,691	1,397	4,139		153,483	152,685	798	298,187	55
4	2,754	45	12,264			2,276	975	25	1,276		26,037	25,690	347	52,800	56
73	34,290					2,316	120	1,221	975		630,330	625,844	4,486	714,132	57
94	41,298	6	515	4	760	8,160	3,433	1,034	3,693		84,652	83,075	1,577	194,685	58
237	62,028	245	50,755	1	162	178,527	3,293	1,739	172,917	578	103,513	102,632	881	452,125	59
46	17,165	17	3,500	1	150	3,000	6,300	419	1,290		63,414	62,999	415	131,154	60
45	27,219			2	250	4,274	2,708	282	1,164	120	16,507	16,081	426	71,146	61
25	8,752	1	150			3,125	220	315	2,590		63,863	63,560	303	89,680	62
1,806	844,644	568	112,561	15	3,170	791,553	32,452	42,432	662,418	54,251	3,661,572	3,575,148	86,424	6,616,767	63

hardware, 1; hardware, saddlery, 1; hosiery and knit goods, 1; ice, manufactured, 2; iron and steel, doors and shutters, 1; jewelry, 1; lamps and reflectors, 2; leather, tanned, curled, and finished, 2; lithographing and engraving, 2; lumber and timber products, 2; mattresses and spring beds, 1; mineral and soda waters, 2; mirrors, 1; mullage and paste, 2; musical instruments and materials, not specified, 2; oleomargarine, 1; perfumery and cosmetics, 1; photolithographing and photoengraving, 1; plumbers' supplies, 1; regalia and society banners and emblems, 2; registers, cash, 1; rubber and elastic goods, 1; saws, 2; shoddy, 1; show cases, 2; soap and candles, 2; starch, 2; steam fittings and heating apparatus, 2; stereotyping and electrotyping, 2; taxidermy, 1; varnish, 1; washing machines and clothes wringers, 1; watches, 1; window shades, 1; wood, turned and carved, 2; woolen goods, 1.

DAYTON.

13,576	\$7,059,503	3,143	\$875,781	150	\$24,508	\$3,295,835	\$215,072	\$141,852	\$2,650,595	\$238,366	\$16,800,011	\$16,437,140	\$313,771	\$35,697,695	1
608	303,041					212,348	150	10,308	201,390		594,646	585,184	9,462	1,281,658	2
8	3,851	8	2,264			1,879	948	86	570	275	13,308	13,190	118	29,600	3
8	3,882					213	155	30	28		1,057	1,022	35	9,275	4
15	7,782					2,117	1,667	38	377	35	8,969	8,623	341	28,700	5
59	30,682			1	156	12,947	6,498	239	1,150	5,060	35,701	33,951	1,750	135,217	6
21	9,359					5,017	4,467	105	445		29,511	29,030	481	64,774	7
49	21,564	61	14,646			3,404	1,500	353	1,551		37,115	35,925	1,190	99,916	8
135	65,017	215	35,643			33,708	6,600	352	26,356		260,773	257,923	2,850	450,885	9
255	88,044	5	900			37,723	210	1,795	35,693		163,021	158,457	4,564	375,136	10
168	82,512	24	4,707	4	800	25,245	12,953	2,220	10,072		332,402	320,639	11,763	629,302	11
18	9,617			2	260	796	90	74	626		19,042	18,732	310	38,440	12
246	132,073			1	156	110,678	1,203	583	3,831	105,061	406,332	404,906	1,426	740,802	13
1	463					167	108	35	24		1,836	1,778	58	5,196	14
281	105,588					15,319	900	3,214	11,205		182,788	181,638	1,150	413,205	15
204	104,621	1	600			9,434	2,854	2,113	4,467		151,866	149,132	2,734	388,205	16
133	71,825	67	16,953	3	534	26,648	12,016	745	3,317	10,570	123,629	122,652	977	354,163	17
18	9,000	266	69,660			9,417	1,620	1,565	6,232		173,613	172,333	1,280	328,217	18
5	3,560	214	39,176	1	108	9,053	6,364	35	2,154		39,513	38,337	676	157,005	19
17	8,744	25	7,734			19,125	3,200	2,245	13,680		386,245	383,267	2,978	506,794	20
33	15,129	45	8,866	1	131	7,151	5,357	395	1,399		102,552	100,958	1,594	191,190	21
18	7,110					323	140	46	137		16,586	16,461	125	26,748	22
11	5,918	2	700	1	132	1,939	1,296	51	532		2,631	2,617	464	19,894	23
115	53,895	10	3,900			18,392	3,330	278	14,734		74,294	73,044	1,250	197,126	24
12	7,600					1,074	649	75	350		19,960	19,950	10	38,000	25
46	29,500					14,495	1,000	3,555	9,940		527,288	520,308	6,980	626,718	26
2,322	1,501,555	56	16,069	2	304	366,431	18,033	14,875	381,636	1,837	2,499,763	2,436,335	63,428	4,994,934	27
19	11,688	3	702	3	702	2,339	1,822	123	264		25,517	25,331	186	53,272	28
385	127,327	2	624	16	2,250	37,313	1,480	3,543	32,315		235,034	230,304	4,730	523,243	29
18	8,184	3	670			382	696	10	176		1,653	1,628	25	6,115	30
						1,920	250	170	1,500		8,392	8,730	162	23,620	31
13	7,944	7	1,699	1	200	16,949	1,901	94	2,954	12,000	21,475	20,377	598	39,344	32
152	97,268					345,242	2,250	12,253	330,739		182,974	164,443	18,526	794,295	33
4	2,213					623	388	155	30		1,175	1,020	155	6,120	34
8	4,752					2,148	67	346	346		11,337	11,134	153	24,500	35
347	193,332					76,748	1,200	1,373	14,175	60,000	415,120	411,716	3,404	751,724	36
66	48,356					14,727	1,505	52	3,170	10,000	33,361	31,006	2,355	114,778	37
136	122,314					4,912	650	229	2,398	1,135	150,288	150,168	120	323,067	38
14	5,300	81	22,133	1	100	15,169	11,934	463	2,767		120,706	120,130	567	211,373	39
15	9,260			1	124	5,555	2,050	18	3,837		26,639	26,279	360	65,234	40
						1,427	1,140	20	267		3,409	2,977	432	19,533	41
22	10,930					3,253	1,316	126	691	1,120	41,232	41,010	192	73,525	42
166	89,217					5,936	3,305	389	2,242		56,762	56,473	289	223,390	43
34	20,167	9	3,600			22,332	630	2,032	20,120		194,974	192,413	2,561	311,437	44
234	93,337	48	10,304	5	1,373	44,126	4,003	3,937	36,131		331,512	324,721	36,791	611,823	45
13	7,973	4	754			1,322	362	142	1,313		33,107	33,071	36	59,414	46

TABLE 8.—MANUFACTURES IN CITIES

DAYTON—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
47 Patent medicines and compounds.....	6	\$180,002	\$150	\$850	\$6,548	\$422,654	8	24	\$33,640	41	\$10,572
48 Paving and paving materials.....	8	80,216	1,798	3,900	4,050	20,468	7	9	3,570	71	30,834
49 Photography.....	12	7,895	250	800	4,750	1,595	15	2	468	11	4,420
50 Plastering and stuccowork.....	13	8,745	825	1,885	1,790	4,745	18			35	18,673
51 Plumbing, and gas and steam fitting.....	21	119,760	21,200	11,500	11,500	75,510	28	10	7,598	188	88,106
52 Printing and publishing, book and job.....	18	277,477	6,700	7,700	180,500	182,577	16	59	39,899	186	85,500
53 Printing and publishing, newspapers and periodicals.....	12	529,917	63,500	72,000	152,097	242,320	5	54	51,081	276	188,120
54 Registers, cash.....	3	4,143,630	47,612	487,576	315,251	3,203,191	1	252	274,073	1,643	1,047,394
55 Roofing and roofing materials.....	8	9,910	600	175	2,850	6,285	9	1	860	15	7,676
56 Saddlery and harness.....	17	46,535	18,000	10,550	3,610	14,875	21	1	900	27	12,892
57 Slaughtering and meat packing, wholesale.....	9	228,400	29,500	47,400	25,700	125,800	14	12	9,900	144	74,061
58 Soap and candles.....	6	230,376	18,300	51,750	30,774	188,552	5	62	52,618	87	30,904
59 Tinsmithing, coppersmithing, and sheet-iron working.....	28	138,640	35,400	26,900	25,270	51,070	34	3	1,970	103	51,066
60 Tobacco, cigars and cigarettes.....	70	576,820	29,900	43,970	55,634	447,316	78	36	50,668	1,098	435,789
61 Tobacco, stemming and rehandling.....	10	854,200	16,000	57,000	9,200	772,000	17	11	16,350	721	177,829
62 Tools, not elsewhere specified.....	3	7,850	200	200	3,500	8,450	2			7	7,260
63 Umbrellas and canes.....	3	83,819			7,289	76,530	4	12	6,997	59	21,880
64 Watch, clock, and jewelry repairing.....	21	13,100	2,635	1,235	3,320	5,910	23			17	10,129
65 All other industries ¹	81	6,085,975	278,329	836,774	1,345,390	3,575,482	77	272	310,636	3,979	1,838,444

¹Embraces baking and yeast powders, 2; blacking, 1; bookbinding and blank book making, 1; bottling, 1; boxes, wooden packing, 1; brick and tile, 2; cars and general shop construction and repairs by steam railroad companies, 2; cars, steam railroad, not including operations of railroad companies, 1; cheese, butter, and condensed milk, factory product, 1; china decorating, 1; cleansing and polishing preparations, 1; cordage and twine, 1; corsets, 2; cutlery and edge tools, 1; druggists' preparations, not including prescriptions, 1; electroplating, 1; engraving and diesinking, 1; fancy articles, not elsewhere specified, 1; fertilizers, 1; files, 2; flags and banners, 1; flavoring extracts, 1; food preparations, 1; fruits and vegetables, canning and preserving, 1; fur goods, 1; gas and oil stoves, 1; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; gloves and mittens, 1; grease and tallow, 2; hand stamps, 1; ice, manufactured, 1; iron and steel,

HAMILTON.

1 All industries.....	222	\$12,575,821	\$997,361	\$2,154,658	\$3,197,683	\$6,226,119	219	325	\$113,632	5,850	\$2,626,084
2 Bicycle and tricycle repairing.....	3	1,660			360	1,300	5			1	390
3 Blacksmithing and wheelwrighting.....	15	8,075	1,675	1,150	1,675	3,575	18			18	9,621
4 Boots and shoes, custom work and repairing.....	12	6,535	1,700	3,415	625	765	15			6	2,235
5 Bread and other bakery products.....	12	35,200	6,650	19,000	6,750	2,800	14			33	15,727
6 Carpentering.....	10	47,445	8,900	4,725	2,940	30,880	11			70	43,128
7 Carriage and wagon materials.....	3	34,600	7,100	4,900	4,300	18,300	5	1	936	30	11,800
8 Carriages and wagons.....	3	243,547	11,000	66,000	14,878	151,669	2	16	17,784	178	77,759
9 Clothing, men's, custom work and repairing.....	13	34,915	7,000	2,000	4,805	21,110	15	12	5,852	50	22,188
10 Confectionery.....	3	2,150			1,650	500	4	2	400	3	700
11 Flouring and grist mill products.....	3	119,958	16,600	18,350	49,430	35,528		9	8,670	36	21,442
12 Foundry and machine shop products.....	16	4,567,846	237,000	795,264	1,154,394	2,380,688	6	100	142,697	2,700	1,323,986
13 Furniture, cabinetmaking, repairing, and upholstering.....	5	11,430	1,950	4,200	3,555	1,725	7			3	1,400
14 Liquors, malt.....	3	1,994,956	270,000	328,581	391,940	1,004,432		22	28,240	178	108,861
15 Looking-glass and picture frames.....	4	1,800	200	200	50	1,350	4			2	740
16 Lumber, planing mill products, including sash, doors, and blinds.....	3	96,100	16,400	21,000	14,100	44,600	2	11	9,050	62	40,230
17 Malt.....	3	584,660	158,000	170,000	50,630	206,000	3	4	7,526	30	17,054
18 Masonry, brick and stone.....	4	2,800	900		500	1,400	4			25	21,400
19 Millinery, custom work.....	8	7,360			400	6,960	3	9	3,090	40	15,540
20 Painting, house, sign, etc.....	9	2,299			745	1,554	13			13	5,030
21 Photography.....	5	3,825			2,225	1,600	5			5	1,200
22 Plumbing, and gas and steam fitting.....	7	6,295			1,155	5,140	9	3	1,646	29	15,559
23 Printing and publishing, book and job.....	3	11,535			9,000	2,535	7			15	4,806
24 Printing and publishing, newspapers and periodicals.....	3	138,400	15,000	21,000	57,000	45,400		5	4,880	107	40,154
25 Roofing and roofing materials.....	5	15,275	2,000	1,000	4,975	7,300	6	2	1,040	16	8,087
26 Saddlery and harness.....	6	6,765	1,810	3,000	265	1,690	6			5	2,371
27 Safes and vaults.....	3	1,947,444	91,000	291,740	739,414	822,290		22	45,921	509	252,188
28 Tinsmithing, coppersmithing, and sheet-iron working.....	5	263,780	10,200	52,100	86,605	114,875	4	11	20,020	340	99,970
29 Tobacco, cigars and cigarettes.....	12	11,890	700	1,200	1,115	8,375	13			22	10,242
30 Watch, clock, and jewelry repairing.....	4	5,950			525	5,425	4			4	2,436
31 All other industries ¹	37	2,361,825	128,576	345,800	591,037	1,296,413	29	96	115,877	1,320	449,880

¹Embraces agricultural implements, 2; boots and shoes, factory product, 1; brass castings and brass finishing, 1; brick and tile, 1; brooms and brushes, 1; carpets, rag, 2; clothing, men's, factory product, 1; electroplating, 1; food preparations, 1; fruits and vegetables, canning and preserving, 1; gas, illuminating and heating, 2; hardware, 1; hosiery and knit goods, 1; lock and gun smithing, 1; marble and stone work, 1; mattresses and spring beds, 1; mineral and soda waters, 1; models

BY SPECIFIED INDUSTRIES: 1900—Continued.

DAYTON—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
9	\$3,948	82	\$6,624			\$45,288	\$2,528	\$1,000	\$41,730		\$51,412	\$33,892	\$580	\$215,999	47
71	30,834					1,903	265	185	1,503		40,286	40,058	228	90,104	48
7	3,582	2	400	2	\$138	4,768	3,313	101	1,319	\$5	8,091	7,952	139	28,575	49
35	18,673					984	510	93	881		25,754	25,742	12	64,212	50
157	88,086			1	110	12,538	6,464	1,254	4,820		210,289	208,943	1,346	409,896	51
142	73,508	40	11,322	4	670	55,415	9,546	1,159	27,861	16,849	173,335	169,988	3,347	431,840	52
218	125,816	55	12,070	3	235	48,051	4,272	3,372	27,903	8,104	146,234	140,933	5,301	486,639	53
1,465	983,778	178	63,616			841,758	754	7,116	833,888		647,858	632,940	14,918	4,927,261	54
14	7,696			1	80	1,277	924	60	299		23,997	23,759	238	46,340	55
25	12,488	2	404			3,783	2,664	438	681		24,724	24,425	299	56,732	56
144	74,061					9,907	490	2,203	7,274		898,963	889,910	9,053	1,031,575	57
52	24,541	13	2,603	22	3,760	100,440	840	2,971	96,629		290,006	287,163	3,743	643,468	58
95	49,466	4	1,000	4	600	11,319	4,333	1,079	6,407		124,592	123,209	1,383	232,108	59
343	162,915	741	271,314	14	1,560	215,642	9,920	2,124	208,598		420,194	417,773	2,421	1,285,400	60
226	70,021	485	105,808	10	900	26,085	2,968	3,696	16,421	3,000	605,747	604,233	1,514	886,764	61
6	7,000	1	260			2,618	564	15	149	1,800	2,844	2,707	137	15,625	62
19	10,440	87	10,816	3	624	6,249	3,340	416	2,493		136,232	135,616	616	192,100	63
16	10,021			1	108	3,276	2,879	132	275		6,194	4,800	891	30,114	64
3,540	1,752,631	397	77,885	42	7,928	858,560	25,539	42,797	238,924	51,300	4,819,551	4,741,585	77,960	8,201,681	65

forgings, 1; jewelry, 2; lasts, 1; lime and cement, 1; lumber and timber products, 2; mattresses and spring beds, 2; mucilage and paste, 2; oil, lard, 1; oil, linseed, 1; paper goods, not elsewhere specified, 2; photolithographing and photoengraving, 2; pickles, preserves, and sauces, 1; plumbers' supplies, 1; pottery, terra cotta, and fire-clay products, 1; pumps, not including steam pumps, 2; saws, 1; scales and balances, 1; screws, wood, 1; sewing machine repairing, 1; sewing machines and attachments, 1; shirts, 2; slaughtering, wholesale, not including meat packing, 1; stationary goods, not elsewhere specified, 1; stencils and brands, 2; tobacco, chewing, smoking, and snuff, 1; toys and games, 2; trunks and valises, 1; varnish, 2; vault lights and ventilators, 1; wirework, including wire rope and cable, 1; wood, turned and carved, 1; woodenware, not elsewhere specified, 1.

HAMILTON.

5,027	\$2,445,121	758	\$171,649	65	\$9,314	\$303,481	\$30,101	\$13,549	\$729,228	\$600	\$5,535,568	\$5,388,146	\$147,422	\$12,008,316	1
1	390					295	250	19	26		1,778	1,778		4,425	2
17	9,445			1	176	1,970	1,622	66	282		6,455	6,097	358	31,400	3
6	2,235					1,152	912	105	135		3,459	3,459		13,112	4
29	14,813	4	884			3,458	2,320	458	680		52,606	51,373	1,233	94,950	5
70	43,123					1,757	100	485	1,172		73,091	73,091		132,638	6
30	11,800					1,110		260	850		17,908	17,233	675	38,300	7
156	72,659	13	3,500	9	1,600	39,106	408	1,205	37,490		211,772	209,954	1,818	579,334	8
36	17,696	14	4,492			5,146	3,229	447	870	600	38,886	38,696	190	93,810	9
1	300	2	400			1,056	850	26	180		4,470	4,401	66	10,000	10
36	21,442					5,630	900	530	4,200		496,900	491,180	5,720	582,638	11
2,685	1,321,332	3	824	12	1,780	196,429	1,510	17,491	177,428		1,333,034	1,289,926	43,108	3,945,570	12
3	1,400					685	520	80	35		1,875	1,830	45	7,725	13
178	108,861					302,339		5,604	350,735		191,759	164,772	26,987	765,284	14
2	740					856	289	12	55		3,315	3,315		5,025	15
62	40,230					2,432		550	1,892		47,386	45,924	1,412	119,500	16
30	17,054					10,867	1,718	1,576	7,578		207,417	198,990	8,427	255,860	17
25	21,400					40		15	25		5,523	5,523		32,075	18
18	5,090	40	15,510			2,758	1,540	108	1,110		29,035	28,986	50	67,450	19
		5	1,200			352	330		22		4,929	4,929		17,550	20
						1,632	1,452	30	200		2,705	2,705		11,000	21
29	15,559					1,869	970	50	849		17,520	17,459	61	45,710	22
6	3,000	8	1,606	1	200	1,074	416	62	598		7,475	7,129	355	20,950	23
42	25,520	53	13,634	12	1,000	5,141	1,290	406	3,418		26,741	25,643	1,098	94,850	24
16	8,037					2,505	1,750	245	510		17,204	17,071	133	35,600	25
5	2,371					993	838	147	8		4,182	4,180	2	10,575	26
501	250,682			8	1,456	24,845		4,299	20,046		478,538	464,373	8,645	962,907	27
181	66,970	159	33,000			9,722	510	1,439	7,773		452,703	447,735	4,908	616,304	28
20	10,032			2	210	6,479	1,438	98	4,943		15,602	15,564	38	42,224	29
4	2,436					936	615	75	246		951	908	43	7,250	30
843	350,419	457	96,569	20	2,892	111,814	4,392	7,598	99,884		1,785,409	1,743,388	42,021	3,340,410	31

and patterns, 2; monuments and tombstones, 1; paints, 1; paper and wood pulp, 2; paper goods, not elsewhere specified, 1; patent medicines and compounds, 1; paving and paving materials, 2; plastering and stucco work, 2; plumbers' supplies, 1; pottery, terra cotta, and fire-clay products, 1; tobacco, stemming and rehanding, 1; tools, not elsewhere specified, 1; wirework, including wire rope and cable, 1.

TABLE 8.—MANUFACTURES IN CITIES

LIMA.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 All industries	195	\$5,487,584	\$302,106	\$711,657	\$2,270,928	\$2,202,898	230	208	\$166,716	2,223	\$1,050,780
2 Bicycle and tricycle repairing	7	4,225		500	1,975	1,750	7			4	1,221
3 Blacksmithing and wheelwrighting	15	8,577	2,500	2,450	1,480	2,147	22			14	7,187
4 Boots and shoes, custom work and repairing.	13	2,820		140	1,720	960	13			6	8,000
5 Bread and other bakery products	8	14,175	6,500	2,500	2,275	2,900	8	4	1,460	18	8,008
6 Carpentering	8	14,800	200	305	1,780	12,565	11			27	13,178
7 Clothing, men's, custom work and repairing.	13	24,825		125	1,480	23,270	15	5	4,016	80	31,297
8 Confectionery	4	30,800		8,500	7,150	20,150	3	14	8,981	38	8,877
9 Flouring and grist mill products	4	50,750	11,050	15,250	10,925	15,625	4	4	8,449	15	6,500
10 Foundry and machine shop products	6	466,459	23,800	113,580	83,108	236,021	9	16	13,502	225	131,595
11 Furniture, cabinetmaking, repairing, and upholstering.	5	1,707			832	875	6			2	690
12 Lumber, planing mill products, including sash, doors, and blinds.	3	19,800	10,500	3,500	5,200	600	4			8	3,480
13 Millinery, custom work	7	21,055			155	20,900	8	12	2,484	16	4,098
14 Photography	5	3,375		300	2,385	890	7			4	1,742
15 Plumbing, and gas and steam fitting	7	6,100			950	5,150	8	4	1,128	26	14,770
16 Printing and publishing, book and job.	3	8,200			6,400		4			4	1,186
17 Printing and publishing, newspapers and periodicals.	6	83,200	5,000	20,000	55,000	8,200	6	17	13,472	57	23,496
18 Roofing and roofing materials	3	5,500	3,100	500	850	1,050	3			4	2,392
19 Saddlery and harness	5	7,250	1,000	1,800	459	4,600	0	1	312	10	3,384
20 Tinsmithing, coppersmithing, and sheet-iron working.	8	12,350	500	60	4,550	7,250	11	1	468	30	13,887
21 Tobacco, cigars and cigarettes	7	88,191	600	2,100	2,522	82,069	9	11	15,580	320	88,925
22 Tools, not elsewhere specified	3	30,250	1,750	2,500	8,000	18,000	2	1	1,200	26	13,584
23 Watch, clock, and jewelry repairing	9	3,975			2,125	1,850	12			5	2,370
24 All other industries ¹	46	4,584,000	235,006	549,107	2,069,711	1,735,576	52	119	100,664	1,294	659,933

¹ Embraces awnings, tents, and sails, 1; bottling, 2; boxes, cigar, 1; brass castings and brass finishing, 1; brick and tile, 2; carriages and wagons, 2; cars and general shop construction and repairs by steam railroad companies, 2; clothing, men's, factory product, 1; clothing, women's, dressmaking, 2; cutlery and edge tools, 1; dyeing and cleaning, 1; explosives, 1; furniture, factory product, 2; gas, illuminating and heating, 1; iron and steel, 1; ironwork, architectural and ornamental, 1; leather, tanned, curried, and finished, 1; liquors, malt, 1; lock and gun smithing, 1; lumber and timber products, 2; marble and stone work, 1; masonry

SPRINGFIELD.

1 All industries	305	\$14,091,175	\$636,895	\$1,539,570	\$2,034,378	\$9,880,332	300	1,318	\$1,113,310	6,638	\$3,160,119
2 Agricultural implements	7	8,194,543	232,122	640,352	332,317	6,989,752		897	689,610	2,369	1,174,545
3 Bicycle and tricycle repairing	5	11,225	3,000	2,000	1,450	4,775	5			6	8,436
4 Blacksmithing and wheelwrighting	27	11,465	2,250	3,410	2,895	2,940	33			14	6,638
5 Boots and shoes, custom work and repairing.	15	4,712	900	950	1,252	1,610	19			11	4,340
6 Bread and other bakery products	22	93,182	20,950	27,050	23,295	21,837	23	15	7,532	48	21,897
7 Carpentering	5	14,605	5,000	3,050	5,600	1,045	5			21	11,880
8 Carriages and wagons	5	6,015	100	100	2,215	3,600	8			22	9,564
9 Clothing, men's, custom work and repairing.	16	86,813			1,638	35,125	20	3	1,302	92	37,245
10 Clothing, women's, dressmaking	5	3,285			1,735	1,550	5			16	2,700
11 Collars, burial cases, and undertakers' goods.	8	209,491	3,000	12,708	35,255	158,528	2	23	21,316	197	61,768
12 Confectionery	7	31,258			4,230	26,968	9	1	84	22	8,748
13 Dyeing and cleaning	5	7,625	1,500	1,800	1,635	3,190	5			17	4,270
14 Foundry and machine shop products	30	2,772,036	132,006	462,740	721,792	1,455,498	14	137	160,262	2,197	1,084,631
15 Millinery, custom work	9	17,670	1,000	600	295	15,875	10	14	2,300	26	6,005
16 Models and patterns	4	5,600		800	2,550	2,250	9			17	9,208
17 Painting, house, sign, etc	3	13,780	4,200	3,374	420	5,286	2	5	8,042	23	11,963
18 Patent medicines and compounds	6	125,131	7,000	5,000	11,477	101,654	5	33	37,578	16	6,442
19 Photography	7	5,900			4,875	1,025	8	1	250	7	2,509
20 Plumbing, and gas and steam fitting	5	52,756	7,500	200	3,627	41,429	9	6	4,484	47	20,395
21 Printing and publishing, book and job.	8	87,140	16,000	6,000	44,684	20,506	9	6	6,250	106	44,591
22 Printing and publishing, newspapers and periodicals.	7	478,305	11,700	87,300	210,262	169,043	1	45	60,449	362	164,375
23 Pumps, not including steam pumps	3	1,175			325	850	3			4	1,350
24 Saddlery and harness	4	12,290			400	11,890	4	2	1,800	13	6,090
25 Tinsmithing, coppersmithing, and sheet-iron working.	11	44,300	17,800	8,400	4,800	13,300	10	2	1,272	22	12,102
26 Tobacco, cigars and cigarettes	11	11,110			1,610	9,500	14	1	600	33	13,876
27 Watch, clock, and jewelry repairing	9	7,200	400	375	3,075	2,750	9			9	3,450
28 All other industries ¹	66	1,832,473	170,467	273,461	610,039	778,506	59	122	115,115	931	421,061

¹ Embraces awnings, tents, and sails, 1; bicycles and tricycles, 1; bookbinding and blank book making, 1; boots and shoes, factory product, 2; boxes, cigar, 1; boxes, fancy and paper, 2; brass castings and brass finishing, 2; brick and tile, 2; brooms and brushes, 2; carpets, rag, 2; carriage and wagon materials, 1; cars and general shop construction and repairs by steam railroad companies, 1; chemicals, 1; electroplating, 1; fancy articles, not elsewhere specified, 1; fertilizers, 1; files, 1; flouring and grist mill products, 2; food preparations, 1; furnishing goods, men's, 1; furniture, cabinetmaking, repairing, and upholstering, 1; furniture, factory product, 2; gas and oil stoves, 1; gas, illuminating and heating, 1; grindstones, 1; hardware, 1; ice, manufactured, 1; iron and steel, nails and spires, cut

BY SPECIFIED INDUSTRIES: 1900—Continued.

LINA.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1,888	\$970,530	884	\$80,073	1	\$177	\$277,408	\$82,167	\$18,663	\$180,647	\$45,931	\$4,156,028	\$4,008,348	\$147,680	\$5,705,186	1
4	1,221					1,059	656	23	380		4,249	4,132	117	10,197	2
14	7,167					1,596	1,227	50	309	10	8,328	7,825	502	81,716	3
6	3,000					1,324	1,033	8	233		5,807	5,736	71	16,362	4
15	7,072	3	986			3,107	1,938	118	1,051		24,913	23,997	916	47,881	5
27	13,178					12,094	242	23	154	11,875	26,862	26,242	120	59,815	6
32	19,334	48	11,968			5,218	3,972	292	954		24,708	24,328	380	83,885	7
13	4,700	24	4,000	1	177	3,481	1,480	175	1,826		52,095	51,399	696	86,620	8
15	6,500					2,994	300	461	2,233		163,954	162,494	1,460	184,742	9
225	131,595					12,063	276	2,808	9,570	9	142,549	136,880	5,669	396,923	10
2	690					1,074	832	12	230		2,393	2,358	35	6,900	11
8	3,480					442	120	210	112		3,932	3,487	445	11,200	12
3	1,342	16	4,098			5,099	2,855	809	1,875		38,954	38,954		57,305	13
26	14,770	1	400			1,824	1,086	15	598	125	4,997	4,992	5	13,840	14
8	1,006	1	180			1,849	1,500	68	281		28,982	28,352	130	54,518	15
51	21,702	6	1,794			1,153	600	20	533		4,535	4,355	180	12,450	16
4	2,392					18,016	5,030	734	6,937	815	20,870	19,916	954	90,450	17
10	3,984					811	60	78	173		6,985	6,930	55	12,975	18
30	13,887					1,584	819	116	599		7,158	7,128	30	15,821	19
75	41,780	245	47,145			2,526	1,306	143	1,077		32,511	32,069	442	59,702	20
26	13,984					46,160	1,178	305	44,677		138,824	138,767	57	306,699	21
5	2,370					1,105	405	376	324		25,320	21,810	3,510	74,000	22
1,244	650,376	40	9,557			1,699	1,007	10	332	350	2,419	2,374	45	10,359	23
						166,080	4,195	12,249	106,189	33,447	3,385,183	3,253,322	131,861	5,060,776	24

brick and stone, 1; mattresses and spring beds, 1; mineral and soda waters, 2; monuments and tombstones, 1; painting, house, sign, etc., 2; paper and wood pulp, 1; patent medicines and compounds, 1; paving and paving materials, 2; petroleum, refining, 1; plated and britannia ware, 1; shirts, 1; slaughtering and meat packing, wholesale, 1; taxidermy, 1; wood, turned and carved, 2.

SPRINGFIELD.

6,119	\$3,041,460	496	\$115,055	23	\$3,604	\$1,286,798	\$55,322	\$78,470	\$1,129,968	\$23,038	\$5,569,261	\$5,425,089	\$144,172	\$12,777,173	1
2,317	1,160,320	42	14,225			595,962		45,162	540,800		2,222,540	2,178,093	44,447	5,272,686	2
6	3,436					1,004	400	259	345		5,607	5,521	86	14,565	3
14	6,038					2,382	2,138	65	129		8,364	7,389	975	39,937	4
11	4,340					821	721	22	78		4,614	4,512	102	17,107	5
43	20,847	5	1,050			7,943	3,241	689	4,063		78,935	75,646	3,289	150,419	6
21	11,880					12,222	118	100	6,004	6,000	17,654	17,236	418	67,320	7
22	9,564					2,209	2,068	101	40		9,741	9,460	281	29,437	8
44	28,760	48	13,485			9,841	5,110	300	3,096	1,335	41,527	41,217	310	117,075	9
158	57,961	16	2,700			985	882	9	94		2,074	1,968	106	9,150	10
		39	6,807			21,381	1,576	615	19,690		164,299	163,384	915	303,754	11
16	7,548	6	1,200			3,769	1,958	117	1,634		23,338	22,954	384	59,595	12
7	2,920	10	1,350			674	570	10	88		978	852	126	10,450	13
2,175	1,079,312	12	3,175	10	2,194	249,080	8,435	10,559	220,271	9,815	1,205,057	1,154,001	51,056	3,097,910	14
		26	6,005			4,780	3,516	193	1,071		25,064	24,889	175	51,920	15
17	9,208					522	370	52	100		1,277	1,018	259	14,850	16
23	11,963					1,503	240	54	1,209		9,023	8,932	91	32,350	17
10	5,220	6	1,222			18,085	913	679	16,493		32,325	31,457	868	121,554	18
3	1,400	4	1,100			2,511	1,827	35	649		8,929	8,766	163	24,330	19
47	20,395					6,237	1,840	643	3,754		95,904	95,577	327	128,753	20
83	33,221	23	6,370			4,606	1,297	862	2,447		61,571	60,151	1,420	180,239	21
245	135,249	115	28,866	2	260	146,555	3,556	1,984	140,915		274,808	271,640	3,168	714,214	22
4	1,350					585	522	8	55		962	932	30	4,275	23
13	6,090					1,606	1,200	206	200		16,597	16,527	70	27,900	24
22	12,102					2,076	1,600	227	249		24,591	24,034	557	53,825	25
26	12,640	7	1,235			9,920	1,211	50	8,659		32,217	31,962	255	69,446	26
9	5,450					1,319	860	61	398		2,699	2,623	66	15,500	27
783	393,646	137	26,265	11	1,150	187,730	8,997	15,458	157,387	5,888	1,198,076	1,164,348	33,728	2,198,007	28

and wrought, including wire nails, 1; ironwork, architectural and ornamental, 1; leather, tanned, curried, and finished, 1; lime and cement, 2; liquors, malt, 1; lock and gun smithing, 2; looking-glass and picture frames, 2; lumber, planing mill products, including sash, doors, and blinds, 2; marble and stone work, 1; mattresses and spring beds, 2; mineral and soda waters, 1; monuments and tombstones, 2; optical goods, 1; paper hangings, 2; photolithography and photoengraving, 1; plastering and stuccowork, 1; roofing and roofing materials, 1; soap and candles, 1; steam fittings and heating apparatus, 1; stencils and brands, 1; sugar and molasses, refining, 1; washing machines and clothes wringers, 1; windmills, 1; wirework, including wire rope and cable, 1.

TABLE 8.—MANUFACTURES IN CITIES

TOLEDO.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 All industries	1,050	\$25,591,916	\$2,180,994	\$4,570,338	\$6,658,454	\$12,187,180	1,114	1,278	\$1,224,281	15,383	\$6,845,687
2 Awnings, tents, and sails	4	88,360	25,000	20,000	13,200	30,160	3	9	6,200	45	15,230
3 Baskets, and rattan and willow ware	3	3,800	1,100	800	1,200	700	32	1	216	14	6,008
4 Bicycle and tricycle repairing	25	20,982		100	4,530	16,352	8	1	216	20	7,015
5 Bicycles and tricycles	7	1,626,993	36,037	203,274	608,165	679,517	2	44	48,878	912	416,119
6 Blacksmithing and wheelwrighting	56	88,700	32,650	26,640	9,740	19,670	60	2	1,270	77	47,183
7 Bookbinding and blank book making	4	46,510			12,499	34,011	4	8	6,280	83	11,700
8 Boots and shoes, custom work and repairing	57	26,960	9,300	9,910	3,528	4,222	55			19	8,040
9 Bottling	5	70,558	14,000	16,000	6,650	38,908	2	12	13,200	49	23,040
10 Boxes, cigar	3	11,400			7,800	3,600	4			13	3,790
11 Bread and other bakery products	46	435,037	85,050	121,550	126,781	101,650	48	30	21,516	278	182,706
12 Brick and tile	11	393,312	116,407	126,103	48,950	101,792	16	8	6,636	288	135,851
13 Bridges	4	291,100	7,000	23,000	126,100	135,000	3	12	17,200	305	160,198
14 Brooms and brushes	6	126,245	1,050	730	61,836	68,959	5	12	14,316	196	68,370
15 Carpentering	61	163,705	21,025	48,400	17,665	66,615	59	6	5,500	497	247,094
16 Carpets, rug	6	12,315	2,350	3,650	3,400	2,915	5	2	2,400	18	6,938
17 Carriage and wagon materials	6	470,229	74,200	86,500	84,203	225,326	1	26	27,119	277	96,996
18 Carriages and wagons	10	1,817,309	103,000	294,000	115,141	1,305,222	12	39	49,720	524	183,616
19 Cars and general shop construction and repairs by steam railroad companies	8	333,111	25,225	92,175	76,631	139,080		40	31,463	606	348,048
20 Clothing, men's, custom work and repairing	68	197,200	11,550	17,725	13,285	154,640	81	9	8,370	285	124,019
21 Clothing, men's, factory product	8	9,900			4,400	5,500	6	1	1,050	80	18,380
22 Clothing, women's, dressmaking	16	5,850			1,750	4,100	18			105	29,656
23 Clothing, women's, factory product	4	203,811			18,331	185,480	8	14	24,585	623	170,606
24 Confectionery	15	72,301	1,800	2,100	11,929	56,475	19	27	12,316	36	31,281
25 Cooperage	13	18,235	4,180	3,230	1,800	9,025	15			22	12,023
26 Dyeing and cleaning	8	10,060	2,200	1,300	4,210	2,850	9			20	10,906
27 Electrical construction and repairs	7	29,432	2,000	2,500	5,355	19,577	11	1	240	40	22,259
28 Fancy articles, not elsewhere specified	3	26,341			4,841	21,500	2	2	1,560	20	7,073
29 Flouring and grist mill products	10	1,268,370	71,250	240,240	375,869	581,011	10	20	40,148	233	123,218
30 Foundry and machine shop products	27	1,945,038	96,867	370,831	465,010	1,012,360	22	133	117,843	1,991	970,143
31 Fur goods	3	41,362			1,712	39,650	4	6	920	38	9,690
32 Furniture, cabinetmaking, repairing, and upholstering	13	61,322	5,725	13,425	7,787	34,335	21	6	5,600	109	53,090
33 Furniture, factory product	8	359,537	36,200	62,000	90,103	171,234	11	61	36,594	342	148,233
34 Hand stamps	3	7,700			3,500	4,200	4			10	5,192
35 Hats and caps, not including fur hats and wool hats	3	13,869			1,982	11,887	3	6	4,550	37	11,000
36 Hosiery and knit goods	3	129,001	6,600	3,400	22,861	96,640		24	22,190	214	57,649
37 Jewelry	3	5,000			1,400	3,600	4	1	400	3	2,212
38 Lime and cement	7	77,927	5,000	2,000	11,074	59,853	7	15	7,110	40	18,750
39 Liquors, malt	6	2,189,000	216,000	780,000	386,000	807,000		47	76,070	253	150,799
40 Lock and gun smithing	4	1,900			750	1,150	5				
41 Looking-glass and picture frames	5	103,441	16,500	32,500	10,350	44,091	4	8	10,450	147	47,805
42 Lumber, planing mill products, including sash, doors, and blinds	14	653,086	101,166	108,595	122,568	321,367	8	37	32,397	364	153,253
43 Marble and stone work	6	49,200	18,000	5,000	11,900	14,300	7	1	110	34	22,910
44 Masonry, brick and stone	9	230,670	650	400	3,620	232,000	11	2	3,500	121	69,370
45 Millinery, custom work	65	121,994	7,900	8,850	13,225	92,019	68	11	7,610	214	51,336
46 Mineral and soda waters	3	27,600	5,000	7,000	7,800	7,800	6	4	2,740	24	12,500
47 Monuments and tombstones	5	60,480	9,000	3,950	6,450	41,080	6	8	6,146	36	24,758
48 Painting, house, sign, etc	42	50,250	6,715	7,050	12,863	23,622	47	4	1,780	167	90,322
49 Paints	4	216,047	11,302	12,200	17,187	171,358	3	21	17,761	28	12,891
50 Paper hanging	8	26,150			1,400	24,750	7	7	4,240	28	16,260
51 Patent medicines and compounds	7	166,593	27,000	51,700	3,025	84,868	6	13	10,388	42	13,478
52 Paving and paving materials	10	198,778	19,700	32,215	56,127	90,736	11	10	9,450	243	109,557
53 Petroleum, refining	3	886,735	53,277	184,045	215,230	434,183		27	33,174	96	55,163
54 Photography	18	23,890		300	17,915	5,675	21	2	510	21	8,042
55 Plumbing, and gas and steam fitting	38	194,051	5,300	9,900	32,465	146,389	57	28	16,439	182	117,689
56 Printing and publishing, book and job	24	218,090	15,000	16,000	160,725	66,965	27	36	23,257	293	96,746
57 Printing and publishing, newspapers and periodicals	14	431,798	500	2,000	302,450	126,848	8	68	54,263	319	197,352
58 Pumps, not including steam pumps	3	68,145		150	2,500	65,495	2	11	10,017	26	9,500
59 Roofing and roofing materials	4	36,748	5,000	5,000	6,176	20,572	4	5	2,872	32	15,400
60 Saddlery and harness	9	49,435	3,600	625	6,635	38,575	11	2	1,500	33	15,880
61 Ship and boat building, wooden	4	64,505	43,000	1,900	8,450	11,155	6			53	25,604
62 Smithing, copper-smithing, and sheet-iron working	51	599,257	33,040	71,600	111,021	383,596	59	41	42,964	641	237,399
63 Tobacco, cigars and cigarettes	50	75,570	14,425	12,825	3,941	44,379	52	6	3,040	127	57,743
64 Trunks and valises	3	31,300	1,200	2,000	2,930	28,650	5	11	9,200	62	20,280

BY SPECIFIED INDUSTRIES : 1900.

TOLEDO.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
12,717	\$6,240,139	2,404	\$551,721	262	\$53,827	\$3,068,889	\$259,845	\$153,514	\$2,400,855	\$164,176	\$21,986,798	\$21,477,275	\$509,523	\$37,372,355	1
17	8,088	28	7,142			8,366	1,008	290	7,068		71,929	71,804	625	111,881	2
11	5,008	3	1,000			291	72	16	203		1,310	1,400	90	9,566	3
20	7,015					3,809	2,970	33	806		21,026	20,662	364	49,151	4
995	414,519	7	1,600			77,954	3,348	4,284	70,322		891,970	802,208	29,762	1,583,450	5
77	47,183					8,100	5,229	376	1,995		36,684	34,421	2,263	148,563	6
17	8,494	14	2,894	2	812	6,515	1,555	83	4,877		22,782	22,297	485	64,116	7
18	7,830	1	210			4,926	4,120	375	431		17,318	16,738	580	56,343	8
49	23,040					15,112	600	876	13,636		92,640	91,610	1,030	224,360	9
7	2,380	6	1,410			1,055	730	85	240		12,258	11,932	326	21,710	10
216	121,701	61	10,875	1	180	56,112	10,374	3,335	42,403		475,492	464,310	11,182	807,575	11
282	134,566			6	1,285	22,271	2,000	2,468	17,803		52,846	8,827	44,019	279,152	12
305	160,198					13,815	1,350	12,465	12,465		284,691	280,591	4,100	562,257	13
114	42,350	82	16,020			9,415	4,167	3,625	112,297		112,297	109,752	2,545	217,399	14
497	247,094					70,571	2,956	1,255	8,360	58,000	821,147	820,457	690	1,271,178	15
10	5,122	8	1,816			1,513	140	105	1,268		3,654	3,301	383	21,169	16
278	96,152	4	844			28,066	285	3,047	24,734		257,592	252,826	4,766	461,136	17
521	182,686	3	930			86,117	3,200	9,155	73,762		559,572	549,026	10,546	918,203	18
606	343,048					6,578	250	2,651	3,677		478,725	467,922	10,803	865,605	19
226	106,145	58	17,744	1	130	35,382	22,754	1,398	9,560	1,670	148,296	146,898	1,398	413,651	20
6	2,800	74	15,580			1,153	769	99	255		40,295	39,645	650	67,400	21
14	9,060	91	20,296			5,935	4,323	53	1,459	100	17,438	16,975	463	69,400	22
131	70,000	492	100,606			30,735	6,180	799	23,816		483,360	481,115	2,245	941,918	23
44	21,888	41	9,293	1	100	20,235	11,050	529	8,656		165,963	163,577	2,386	290,412	24
22	12,023					739	126	126	362		33,426	33,351	75	68,575	25
12	7,572	8	3,334			5,766	3,367	131	2,168	100	12,940	12,154	786	39,700	26
38	21,071	2	1,188			3,798	2,268	144	1,386		69,837	69,472	365	119,850	27
7	2,475	13	4,598			3,775	1,820	80	1,875		16,805	16,295	510	37,023	28
230	122,618	3	600			100,918	2,272	6,948	91,698		4,033,921	4,009,080	24,841	4,458,749	29
1,900	969,987			1	156	243,170	17,638	12,154	208,178	5,200	1,130,157	1,053,260	76,897	2,716,613	30
7	3,450	81	6,200			4,576	3,416	110	1,050		24,253	24,203	50	51,991	31
94	48,940	15	4,150			6,156	3,610	651	1,895		98,810	98,430	380	202,825	32
330	144,637			12	3,536	50,166	4,425	3,222	42,469	50	129,065	123,910	5,155	418,337	33
9	4,932	1	260			1,480	836	19	625		2,220	2,220	140	13,025	34
20	6,900	17	4,100			1,278	636	52	590		30,185	29,842	343	47,116	35
4	2,268	208	54,981	2	400	15,270	2,250	868	12,152		66,136	65,014	1,122	172,700	36
2	2,160			1	52	1,797	925	47	225	600	4,413	4,376	37	12,893	37
33	17,350	7	1,400			13,369	2,516	569	10,084	200	64,651	63,021	1,630	128,580	38
250	150,199	3	600			688,252		21,498	666,754		329,605	296,265	33,339	1,458,593	39
						484	464	1	19		505	424	81	3,700	40
122	40,605	25	7,200			8,318	1,010	1,033	6,275		38,249	37,374	875	114,600	41
364	153,253					41,474	3,383	7,037	31,049		1,057,550	1,055,831	1,719	1,376,149	42
34	22,910					3,398	2,140	586	672		25,872	24,197	1,675	64,648	43
121	69,370					36,588	400	133	5,035	90,000	118,815	118,490	325	943,600	44
3	830	211	50,503			32,181	22,734	970	8,477		144,017	142,586	1,461	305,419	45
28	12,000	1	500			6,219	720	297	5,202		25,214	24,537	677	88,207	46
36	24,758					10,146	60	337	8,199	1,500	30,565	29,933	632	83,347	47
166	90,192			1	130	11,617	5,533	377	6,707		57,076	56,797	279	208,911	48
26	12,423	2	468			16,268	1,409	655	14,313		119,945	118,220	1,725	196,088	49
28	16,260					3,923	2,378	182	1,365		31,225	31,140	85	75,436	50
17	6,844	25	6,634			219,127	2,360	986	215,781		85,192	84,420	772	436,350	51
243	109,557					7,463	120	623	6,720		166,925	163,792	3,133	349,917	52
96	55,163					73,735		3,491	69,841	400	1,047,942	995,654	52,288	1,392,745	53
16	6,911	4	903	1	225	8,360		210	1,965	75	12,733	12,237	496	52,014	54
179	116,389	3	820			22,841	12,039	1,005	8,747	1,000	319,479	317,829	1,650	577,433	55
170	87,259	37	9,357	1	130	30,551	9,589	1,493	19,189	300	120,109	115,747	4,362	337,239	56
287	187,891	31	9,357	1	104	60,040	9,350	1,514	44,471	4,705	145,164	138,229	6,935	580,512	57
26	9,500					3,039	1,030	184	1,825		51,845	51,325	20	87,392	58
32	13,400					4,356	404	82	2,970		31,966	31,466	500	64,839	59
33	15,830					4,829	2,994	337	1,498		36,910	36,375	535	74,245	60
53	25,694					494	30	44	145	275	24,742	24,310	432	65,950	61
407	190,651	158	32,446	76	14,302	31,354	8,690	3,457	19,207		927,972	920,829	7,143	1,435,089	62
110	53,297	17	4,446			31,656	3,907	417	27,332		74,274	73,874	400	211,235	63
55	18,950	5	1,070	2	260	9,415	1,050	395	7,970		53,280	52,970	310	98,500	64

TABLE 8.—MANUFACTURES IN CITIES

TOLEDO—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
65 Watch, clock, and jewelry repairing	28	\$15,985	\$2,500	\$2,150	\$5,500	\$5,835	22	2	\$1,500	19	\$12,536
66 Wirework, including wire rope and cable.	4	11,554		500	6,611	4,443	3	4	2,160	10	3,222
67 Wood, turned and carved	3	3,550		1,200	1,450	900	3			4	1,780
68 All other industries ¹	79	8,345,946	767,303	1,419,074	2,744,402	3,415,167	71	280	811,763	3,380	1,468,000

¹Embraces agricultural implements, 1; artificial limbs, 1; billiard tables and materials, 1; boxes, fancy and paper, 2; boxes, wooden packing, 2; brass castings and brass finishing, 2; carriages and sleds, children's, 2; cars and general shop construction and repairs by street railroad companies, 1; cars, steam railroad, not including operations of railroad companies, 1; cheese and butter, urban dairy product, 1; cheese, butter, and condensed milk, factory product, 1; coffee and spice, roasting and grinding, 2; corsets, 2; cutlery and edge tools, 1; drug grinding, 1; electrical apparatus and supplies, 1; electroplating, 1; engraving and diesinking, 1; engraving, wood, 1; fertilizers, 1; flavoring extracts, 1; food preparations, 1; gas and lamp fixtures, 1; gas, illuminating and heating, 2; glass, 2; gloves and mittens, 1; horseshoes, factory product, 1; instruments, professional and scientific, 2; iron and steel, 1; iron and steel, pipe, wrought, 1; ironwork, architectural

YOUNGSTOWN.

1 All industries	260	\$22,360,097	\$1,634,360	\$3,081,032	\$10,834,301	\$6,810,404	253	434	\$192,823	9,150	\$4,951,460
2 Bicycle and tricycle repairing	6	5,425		100	2,500	2,825	8			6	2,785
3 Blacksmithing and wheelwrighting	20	26,052	11,550	5,440	2,020	7,042	25			28	18,778
4 Boots and shoes, custom work and repairing.	12	3,918	1,400	426	1,200	892	12			3	1,475
5 Bread and other bakery products	10	50,690	25,500	10,400	2,680	12,110	12			36	17,430
6 Carriages and wagons	7	163,835	28,400	42,250	20,810	72,375	8	13	14,960	82	33,141
7 Clothing, men's, custom work and repairing.	21	44,657		2,500	3,213	88,944	22	3	2,450	106	51,833
8 Clothing, women's, dressmaking	3	700			375	325	4			7	1,475
9 Confectionery	4	7,045		100	4,500	2,445	4	2	1,040	12	4,537
10 Dyeing and cleaning	3	9,050	2,000	2,000	4,400	650	3			7	2,760
11 Foundry and machine shop products	12	1,460,340	138,125	214,716	503,230	574,219	4	65	74,341	789	430,823
12 Furniture, cabinetmaking, repairing, and upholstering.	3	2,030		400	630	1,000	4			4	2,100
13 Iron and steel	11	17,541,854	1,105,000	2,240,000	9,319,500	4,877,354		224	263,096	6,644	3,717,366
14 Looking-glass and picture frames	5	11,310	5,000	2,100	590	3,650	6			4	1,800
15 Lumber, planing mill products, including sash, doors, and blinds.	7	303,795	44,200	28,867	27,419	203,309	10	17	14,862	175	85,066
16 Millinery, custom work	16	23,465	2,000	3,500	1,040	22,925	18	1	900	60	15,102
17 Mineral and soda waters	4	8,350	1,625	2,000	2,500	2,225	3	1	150	10	3,700
18 Painting, house, sign, etc.	10	3,460		150	1,300	2,010	12			31	16,817
19 Paving and paving materials	3	14,850	1,500	350	6,776	6,224	5	2	1,200	14	8,987
20 Photography	6	5,525		2,000	2,400	2,125	8			7	3,842
21 Plumbing, and gas and steam fitting	5	70,050	17,500	10,500	4,350	37,700	6	5	4,164	70	36,702
22 Printing and publishing, book and job	4	44,685			17,650	27,035	3	5	4,700	16	8,180
23 Printing and publishing, newspapers and periodicals.	4	133,200	10,000	30,000	63,843	20,357	2	12	12,100	90	53,550
24 Roofing and roofing materials	11	67,225	3,500	9,300	19,500	34,925	10	6	6,600	53	29,462
25 Saddlery and harness	5	10,325	3,500	2,200	1,850	8,775	4	2	1,100	14	8,370
26 Tinsmithing, coppersmithing, and sheet-iron working.	6	40,641	3,000	3,431	15,892	18,318	5	5	5,520	53	16,378
27 Tobacco, cigars and cigarettes	9	15,455	500	500	605	13,850	11			24	12,519
28 Watch, clock, and jewelry repairing	11	5,911			3,660	2,251	8			10	5,235
29 All other industries ¹	42	2,273,224	230,000	437,892	799,313	805,544	36	71	80,640	786	356,234

¹Embraces bookbinding and blank book making, 1; bottling, 1; brass castings and brass finishing, 1; brick and tile, 1; brooms and brushes, 1; carpentering, 2; cars and general shop construction and repairs by steam railroad companies, 2; cars, steam railroad, not including operations of railroad companies, 1; china decorating, 1; clothing, men's, factory product, 1; cooperage, 2; electrical apparatus and supplies, 2; flouring and grist mill products, 1; food preparations, 1; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; ice, manufactured, 1; iron and steel, bolts, nuts, washers, and rivets, 1; iron and steel,

ZANESVILLE.

1 All industries	293	\$5,162,067	\$423,530	\$1,010,554	\$1,172,137	\$2,549,846	336	424	\$319,864	4,603	\$1,786,005
2 Bicycle and tricycle repairing	3	1,005			370	635	3			4	1,375
3 Blacksmithing and wheelwrighting	15	15,789	7,470	1,625	1,992	4,702	18			18	7,380
4 Boots and shoes, custom work and repairing.	15	11,253	2,250	3,310	956	4,737	17	1	600	9	3,813
5 Bread and other bakery products	6	275,740	11,800	7,900	196,794	59,246	6	24	13,569	104	34,784
6 Carpentering	16	33,913	4,325	6,950	1,370	21,273	20			60	31,463
7 Carpets, rag	4	1,552	200	400	505	447	5			3	570
8 Carriages and wagons	5	21,000	2,500	4,000	5,500	9,000	8	1	120	23	9,909
9 Cars and general shop construction and repairs by steam railroad companies.	6	97,082	9,460	43,640	19,962	24,020		11	8,782	303	167,612
10 Clothing, men's, custom work and repairing.	13	59,281	5,000	5,000	448	48,833	16	6	4,350	100	32,230
11 Clothing, women's, dressmaking	12	4,319	1,040	1,330	678	771	14			28	4,597
12 Confectionery	9	32,253	1,400	8,450	6,100	16,303	10	9	3,098	28	8,392
13 Flouring and grist mill products	7	131,791	10,628	24,590	31,300	65,275	13	4	2,225	19	10,175
14 Foundry and machine shop products	6	353,698	62,500	62,333	109,450	119,415	12	15	13,213	150	70,281
15 Furniture, cabinetmaking, repairing, and upholstering.	5	19,618	5,200	5,950	2,715	5,753	7	11	6,800	25	11,236
16 Liquors, malt	4	78,400	10,000	25,000	23,100	20,300	4	4	2,210	23	13,096

BY SPECIFIED INDUSTRIES: 1900—Continued.

TOLEDO—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.	
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.									
16	\$11,686	8	\$850			\$4,882	\$4,064	\$241	\$577		\$6,896	\$6,051	\$345	\$41,690
8	2,928	2	294			1,606	821	35	750		2,957	2,681	276	13,161
4	1,780					244	141	8	95		849	775	74	4,800
2,628	1,298,229	599	187,196	153	\$32,575	671,085	22,581	46,007	602,497		6,118,481	5,970,586	142,845	9,821,461

and ornamental, 2; liquors, vinous, 2; lumber and timber products, 2; mattresses and spring beds, 2; models and patterns, 1; mucilage and paste, 1; musical instruments and materials, not specified, 2; musical instruments, pianos and materials, 1; oil, linseed, 2; oil, not elsewhere specified, 1; optical goods, 2; paper and wood pulp, 1; perfumery and cosmetics, 2; photographic materials, 1; plastering and stuccowork, 1; pottery, terra cotta, and fire-clay products, 1; rubber and elastic goods, 2; saws, 1; scales and balances, 1; shipbuilding, iron and steel, 1; show cases, 1; slaughtering and meat packing, wholesale, 1; soap and candles, 2; stereotyping and electrotyping, 1; tobacco, chewing, smoking, and snuff, 1; tools, not elsewhere specified, 1; toys and games, 1; wheelbarrows, 1; windmills, 1; woodenware, not elsewhere specified, 1.

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8,005	\$4,885,779	226	\$61,824	19	\$3,857	\$968,636	\$40,806	\$52,388	\$868,908	\$6,589	\$23,541,769	\$21,489,509	\$2,052,266	\$34,801,101	1
6	2,785					752	636	6	110		2,193	2,008	187	7,080	
23	18,778					2,103	1,670	172	261		11,507	10,979	528	60,825	
8	1,475					601	536	25	40		3,770	3,635	135	10,975	
29	15,600	7	1,740			2,721	1,968	395	858		38,804	37,313	1,491	81,940	
82	38,144					10,039	800	1,723	8,556		88,685	82,705	1,180	202,955	
70	40,321	35	11,367	1	150	7,619	6,404	120	1,095		65,232	64,881	351	158,854	
		7	1,475			490	441		46		660	625	35	3,950	
9	4,037	3	500			785	620	2	163		21,111	20,437	674	41,816	
5	1,760	2	1,000			1,002	244	58	700		1,603	1,163	445	8,420	
789	430,828					95,375	1,435	5,330	84,560	4,000	805,825	836,582	29,243	1,800,001	
4	2,100					667	630	5	32		2,435	2,400	35	9,315	
6,629	3,714,304			15	3,002	634,152		28,978	605,174		19,988,613	18,028,364	1,960,249	28,208,856	
3	1,550			1	250	1,145	775	76	264		7,019	6,962	57	16,700	
175	85,066					9,156	700	2,694	5,762		338,077	336,150	1,927	615,437	
		69	15,102			5,754	4,925	90	730		75,447	75,060	387	122,573	
9	3,450			1	250	831	360	351	120		9,511	9,246	265	19,599	
31	16,817					1,814	1,068	20	226		7,983	7,968	17	36,053	
14	8,987					208		58	150		18,432	18,382	50	30,801	
4	3,104	3	738			1,815	1,571	32	200		4,945	4,680	265	18,684	
70	36,702					3,100	1,800	285	1,015		78,242	77,859	383	164,436	
10	6,180	6	2,000			3,996	1,722	215	2,059		6,761	5,995	766	44,160	
84	56,016	6	2,534			6,024	1,355	833	3,636	200	42,345	41,007	1,338	148,800	
58	29,462					4,794	1,771	555	2,468		231,243	230,430	813	319,118	
14	8,370					1,613	658	186	769		9,277	9,190	87	29,850	
80	10,576	23	5,802			6,262	474	602	5,286		79,605	78,954	651	130,000	
20	10,853	4	1,666			8,018	1,365	35	6,618		12,211	12,021	190	39,138	
10	5,235					1,769	1,430	40	299		2,950	2,847	103	16,782	
724	338,189	61	17,900	1	145	155,931	5,882	9,538	138,172	2,339	1,532,078	1,481,761	50,314	2,578,983	

forgings, 1; iron and steel, pipe, wrought, 1; ironwork, architectural and ornamental, 1; lime and cement, 2; liquors, malt, 2; lock and gun smithing, 1; masonry, brick and stone, 2; mattresses and spring beds, 1; models and patterns, 1; monuments and tombstones, 2; musical instruments and materials, not specified, 1; photolithography and photoengraving, 1; pottery, terra cotta, and fire-clay products, 1; printing and publishing, music, 1; tools, not elsewhere specified, 2.

ZANESVILLE.

3,500	\$1,582,538	1,000	\$201,505	13	\$1,962	\$365,338	\$31,861	\$39,284	\$291,772	\$2,421	\$3,756,489	\$3,511,162	\$245,327	\$7,463,839	1
3	1,275					981	380	47	554		1,686	1,615	71	5,262	
18	7,380			1	100	1,812	754	169	395		8,400	7,909	491	38,900	
9	3,818					949	603	58	188		4,708	4,581	127	17,190	
79	30,213	25	4,571			19,249	3,660	1,150	14,439		168,383	164,964	3,419	289,405	
60	31,463					1,621	108	111	402	1,000	113,003	112,866	137	167,298	
1	325	2	245			247	180	4	63		1,149	1,096	53	4,098	
23	9,909					1,099	485	122	492		8,050	7,888	662	28,520	
303	157,612					2,776		1,812	964		313,613	309,042	4,571	482,788	
31	15,367	69	16,863			5,983	3,829	379	1,775	500	45,680	45,368	312	115,204	
		28	4,597			797	600	80	167		2,527	2,378	154	14,876	
13	5,536	15	2,856			3,653	2,312	302	1,039		30,306	29,657	649	71,612	
18	9,913	1	262			4,522	617	1,205	2,610		128,431	127,339	1,092	163,710	
150	70,281					11,584	1,220	1,892	8,472		64,382	63,887	4,965	172,231	
25	11,236					1,009	290	56	663		7,169	6,898	271	41,020	
23	13,096					48,167		1,491	46,676		26,723	23,103	3,620	105,604	

TABLE 8.—MANUFACTURES IN CITIES

ZANESVILLE—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES AND CITIES AND VILLAGES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
17	Looking-glass and picture frames.....	4	\$1,500			\$105	\$1,125	6	3	\$1,560	4	\$1,200
18	Lumber and timber products.....	4	30,200	\$7,400	\$1,700	11,300	6,800	7	2	1,600	50	19,065
19	Lumber, planing mill products, includ- ing sash, doors, and blinds.....	3	147,500	25,000	22,000	23,100	77,400	11	11	8,770	53	22,632
20	Masonry, brick and stone.....	7	52,092	2,380	2,890	16,697	30,125	12	2	475	214	114,096
21	Millinery, custom work.....	15	18,752	400	475	727	17,150	20	6	1,880	23	5,334
22	Painting, house, sign, etc.....	14	5,223			900	4,268	17	3	452	37	17,581
23	Paving and paving materials.....	3	131,024	24	100	45,800	85,100	3	6	9,980	119	54,125
24	Photography.....	4	6,050			4,400	1,650	5	2	1,120	6	2,280
25	Plastering and stucco work.....	3	4,040	600	1,150	400	1,890	4	4		4	1,815
26	Plumbing, and gas and steam fitting.....	6	34,960	6,000	10,000	4,069	14,891	8	4	930	43	21,732
27	Pottery, terra cotta, and fire-clay prod- ucts.....	10	1,046,403	45,000	380,508	175,790	445,105	7	132	108,600	1,462	465,216
28	Printing and publishing, book and job.....	6	9,700			5,850	3,850	7	6		10	3,109
29	Printing and publishing, newspapers and periodicals.....	6	135,635	14,000	19,000	61,507	40,528	6	19	10,998	96	41,569
30	Saddlery and harness.....	4	8,975			1,075	7,900	5	1	800	8	4,670
31	Shirts.....	3	17,550	800	4,000	2,500	10,250	2	6	3,720	70	13,618
32	Tinsmithing, coppersmithing, and sheet-iron working.....	9	12,105	1,080	2,805	1,925	6,795	12			17	8,995
33	Tobacco, cigars and cigarettes.....	12	6,961	605	760	1,480	4,116	14	5	2,340	41	11,853
34	Watch, clock, and jewelry repairing.....	6	3,003			1,315	1,688	4	4		8	3,418
35	All other industries ¹	48	2,353,605	186,470	307,038	411,537	1,388,510	44	136	112,158	1,441	576,732

¹ Embraces agricultural implements, 1; bookbinding and blank book making, 1; boxes, fancy and paper, 1; boxes, wooden packing, 1; brick and tile, 2; carriage and wagon materials, 1; coffee and spice, roasting and grinding, 2; coffins, burial cases, and undertakers' goods, 1; cordage and twine, 2; dyeing and cleaning, 2; electrical construction and repairs, 1; electroplating, 1; engraving, wood, 1; flavoring extracts, 2; fruits and vegetables, canning and preserving, 1; furniture, factory product, 1; gas, illuminating and heating, 1; glass, 2; glass, cutting, staining, and ornamenting, 1; hammocks, 1; hand knit goods, 1; ice.

TABLE 9.—MANUFACTURES IN CITIES AND

		7,683	\$148,880,261	\$10,326,391	\$26,351,910	\$40,452,231	\$66,749,729	8,511	6,436	\$6,030,459	\$6,859	\$38,256,099
1	Total for cities and villages.....											
2	Alliance.....	145	5,804,953	344,740	1,289,654	1,402,961	2,767,598	158	136	120,703	1,749	784,989
3	Ashburnia.....	90	764,127	65,305	85,286	295,839	317,097	80	48	35,763	440	188,562
4	Athens.....	39	306,632	14,310	90,038	62,117	140,167	45	30	17,554	215	95,865
5	Barberton.....	27	3,366,386	443,023	561,399	765,399	1,596,451	26	65	96,423	1,115	461,082
6	Barnesville.....	56	503,124	31,974	126,066	97,280	247,854	68	31	22,276	418	183,033
7	Bellaire.....	94	3,612,811	155,545	677,319	2,134,276	645,671	97	88	114,520	2,141	923,305
8	Bellefontaine.....	104	620,585	100,360	192,538	251,887	119	50	35,578	713	311,942	
9	Bellevue.....	38	661,742	29,222	81,988	69,496	481,036	37	34	37,286	301	125,986
10	Bridgeport.....	23	1,717,473	85,600	285,600	1,046,939	299,534	23	74	84,757	1,614	911,421
11	Bryan.....	59	315,671	18,148	75,225	77,899	144,399	75	10	8,392	180	73,054
12	Bucyrus.....	91	1,011,031	78,458	216,569	276,841	439,163	103	62	54,192	751	338,535
13	Cambridge.....	65	1,201,662	62,625	132,340	416,555	590,142	74	63	58,077	549	323,339
14	Canal Dover.....	75	1,931,838	99,673	440,395	583,861	807,969	79	62	84,215	1,507	721,242
15	Carthage.....	24	404,420	16,750	65,650	78,400	243,620	27	21	20,846	309	143,361
16	Celina.....	34	149,000	9,340	35,800	51,310	52,550	43	14	9,302	153	58,314
17	Chillicothe.....	115	914,447	98,690	198,510	244,956	372,291	123	75	37,868	1,223	454,644
18	Circleville.....	83	1,163,592	69,525	231,875	369,493	468,699	113	50	28,941	686	321,470
19	Conneaut.....	68	595,115	74,670	111,003	146,725	262,712	87	31	35,375	651	285,684
20	Coshocton.....	48	806,023	30,975	95,591	320,235	359,222	44	127	103,360	1,083	339,120
21	Cuyahoga Falls.....	27	906,439	68,300	111,200	447,845	279,094	32	33	42,340	522	253,292
22	Defiance.....	100	1,141,426	66,450	160,333	216,065	698,573	115	61	60,116	936	356,951
23	Delaware.....	69	566,596	38,700	74,475	210,995	236,426	82	48	36,643	655	248,446
24	Delphos.....	59	369,524	40,125	55,833	110,601	162,915	72	10	6,801	286	119,202
25	Dennison.....	33	378,143	9,926	97,710	154,287	116,220	34	57	48,941	392	524,693
26	East Liverpool.....	162	5,056,198	600,133	1,279,063	865,271	2,311,731	173	294	292,185	4,473	2,150,933
27	Elmwood Place.....	23	770,096	32,800	104,660	139,348	494,288	26	24	33,500	301	153,163
28	Elyria.....	76	1,778,819	81,290	262,573	468,255	966,701	69	94	89,379	963	391,841
29	Findlay.....	252	2,152,202	109,687	485,604	580,657	976,254	309	131	99,324	1,478	633,505
30	Fostoria.....	92	1,532,627	74,212	332,171	532,691	573,533	97	72	56,918	795	278,529
31	Franklin.....	39	448,290	93,160	98,650	129,355	126,625	39	20	19,530	296	119,118
32	Fremont.....	156	2,616,545	140,992	436,894	600,390	1,438,269	185	165	188,641	1,504	599,286
33	Gallion.....	65	916,488	73,200	224,161	203,624	415,503	69	55	35,401	891	307,410
34	Gallipolis.....	89	491,907	47,050	74,150	124,560	246,147	91	35	24,602	453	159,479
35	Greenville.....	97	349,412	18,400	28,020	105,932	197,060	119	16	8,438	330	109,192
36	Hillsboro.....	48	331,539	20,450	44,912	74,445	191,732	49	28	29,029	293	114,135
37	Ironton.....	112	3,321,219	334,333	570,831	1,072,844	1,343,111	105	98	108,457	1,736	767,394
38	Jackson.....	43	454,008	34,839	99,050	41,545	278,574	44	14	11,365	147	60,363
39	Kent.....	59	723,218	29,733	227,708	216,464	249,323	60	24	18,336	945	405,237
40	Kenton.....	95	886,637	85,025	178,033	194,356	429,223	100	59	47,068	653	266,299
41	Lancaster.....	100	1,537,272	130,541	307,567	322,741	776,423	103	81	68,017	1,287	614,609
42	Lebanon.....	72	223,705	8,175	24,425	102,085	89,020	26	6	2,229	179	34,902
43	Leetonia.....	32	2,121,818	40,630	614,832	443,010	1,023,246	37	34	41,346	496	230,162
44	Lockland.....	56	2,313,049	349,550	644,750	442,773	875,976	51	68	89,977	596	230,750
45	Lorain.....	59	12,343,937	363,739	2,699,569	3,625,720	5,151,909	57	116	111,880	2,221	1,115,890
46	Mansfield.....	251	5,760,745	220,725	567,027	981,780	3,991,214	293	354	317,359	3,160	1,217,457

BY SPECIFIED INDUSTRIES: 1900—Continued.

ZANESVILLE—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—Continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
2	\$800	2	\$400			\$638	\$556	\$29	\$53		\$2,950	\$2,917	\$88	\$9,101	17
50	19,065					1,076	36	450	590		51,128	51,128		102,000	18
53	22,682					7,091	300	2,042	4,749		92,957	91,900	1,057	142,510	19
214	114,096					2,244	48	182	1,864	\$200	181,486	180,816	670	351,150	20
		22	5,227	1	\$107	4,385	3,319	204	868		37,845	37,520	325	54,040	21
37	17,581					1,084	860	18	155	11	10,472	10,367	105	43,184	22
118	54,000				125	5,153	336	498	4,159	160	71,630	69,310	2,320	148,659	23
3	1,635	3	645			1,804	1,041	37	726		7,062	6,872	190	20,510	24
4	1,815					58		26	32		8,351	8,327	24	7,811	25
48	21,782					2,696	1,015	478	1,203		17,766	17,583	178	57,559	26
950	361,591	511	108,385	1	240	82,504	216	9,321	72,967		438,720	380,679	58,041	1,245,262	27
7	2,631	1	175	2	300	1,040	805	99	136		2,821	2,592	229	19,340	28
82	35,194	14	6,375			7,835	846	742	6,247		19,687	18,450	1,237	124,081	29
8	4,670					1,802	1,390	99	813		9,568	9,426	137	22,814	30
4	1,418	66	12,200			1,606	240	42	1,324		42,800	42,642	158	70,172	31
17	8,995					1,976	1,012	113	551	800	16,406	16,088	318	35,232	32
28	9,171	18	2,682			11,380	1,744	109	9,527		16,122	15,903	219	52,641	33
6	3,080	1	208	1	130	1,027	600	48	879		1,461	1,333	123	9,284	34
1,208	535,008	227	40,814	6	960	126,139	2,969	15,885	107,035	250	1,858,062	1,698,718	159,344	3,240,282	35

manufactured, 1; iron and steel, 2; leather, tanned, curried, and finished, 2; lime and cement, 1; liquors, distilled, 1; lock and gun smithing, 1; mineral and soda waters, 2; monuments and tombstones, 2; patent medicines and compounds, 1; roofing and roofing materials, 2; slaughtering and meat packing, wholesale, 1; soap and candles, 2; tobacco, chewing, smoking, and snuff, 1; umbrellas and canes, 1; woolen goods, 1.

VILLAGES UNDER 20,000 IN POPULATION: 1900.

73,579	\$35,328,344	11,929	\$2,702,656	1,351	\$225,099	\$12,660,971	\$712,936	\$707,374	\$10,438,016	\$757,615	\$110,337,884	\$103,111,512	\$7,226,372	\$199,775,174	1
1,614	748,604	123	31,387	12	1,998	180,348	12,074	8,825	188,380	404	1,906,204	1,846,748	59,456	3,730,144	2
890	175,894	49	12,472	1	196	67,950	8,219	4,377	23,323	32,031	575,249	569,438	11,811	997,818	3
192	30,021	18	5,172	5	672	27,671	3,238	6,399	14,701	0,378	158,314	145,957	12,357	360,052	4
951	422,555	174	37,328	10	1,200	328,720	924	14,333	308,413		1,804,453	1,783,841	70,812	3,256,844	5
308	166,724	108	15,812	7	997	37,908	2,754	3,794	30,914	441	358,674	344,536	14,138	657,000	6
1,838	854,682	243	58,626	60	9,907	250,408	7,904	15,875	226,606	18	6,129,193	5,418,618	710,676	9,150,462	7
648	301,079	62	9,379	13	1,484	44,708	9,394	6,919	22,733	5,600	662,703	641,592	21,111	1,139,201	8
278	120,872	10	2,602	18	2,512	25,057	2,987	1,947	20,143		589,671	533,008	6,668	834,880	9
1,494	885,576	62	15,815	58	10,580	61,658	1,959	14,608	44,986	100	2,874,661	2,798,456	76,205	4,798,847	10
156	69,103	22	3,676	2	276	24,282	3,398	1,813	18,501	20	208,349	203,492	4,857	396,757	11
679	323,229	56	8,974	16	1,332	73,535	7,542	8,166	55,827	2,000	557,220	541,930	15,290	1,800,327	12
809	518,585	40	9,754			82,401	5,062	6,468	71,856	525	1,438,670	1,393,829	44,841	2,450,368	13
1,462	711,478	31	7,065	14	2,699	128,719	8,290	6,288	98,941	20,200	2,026,574	1,822,186	204,388	3,880,494	14
363	141,041	6	2,320			802,443	1,453	1,750	799,240		415,216	399,510	15,706	1,557,273	15
123	54,797	20	3,013	4	504	11,881	2,764	1,170	7,022	925	235,619	232,586	3,033	410,037	16
945	414,357	204	39,096	14	1,191	96,614	11,666	8,682	76,266		914,665	896,898	17,767	1,709,895	17
542	202,627	108	15,613	36	3,230	59,518	7,084	7,659	44,175	600	1,273,874	1,234,472	39,402	1,938,998	18
542	263,718	109	21,916			36,192	6,254	2,918	27,020		540,056	530,737	9,319	1,003,423	19
674	251,310	409	37,266	5	544	66,647	3,009	5,642	56,996	1,000	778,215	760,465	11,750	1,438,102	20
507	250,454	14	2,773	1	65	58,794	940	3,612	54,241		921,147	891,947	29,200	1,462,767	21
816	334,316	116	22,175	4	460	87,931	11,837	10,994	64,950	150	814,712	798,961	15,751	1,609,884	22
505	216,161	148	32,105	2	180	57,188	10,349	4,191	42,648		351,467	341,973	9,494	846,646	23
266	115,327	19	3,725	1	150	37,197	2,382	3,709	30,006	500	225,928	209,135	16,793	519,730	24
878	521,628	14	3,065			73,480	1,485	5,099	66,545	350	584,396	567,565	16,831	1,235,334	25
3,323	1,835,091	1,107	306,872	48	8,975	841,135	19,784	17,376	192,443	111,532	1,769,408	1,584,104	225,304	5,459,043	26
298	152,576	1	200	2	392	8,227	1,045	2,151	5,031		441,813	440,146	1,667	743,536	27
805	363,025	144	27,272	19	1,544	137,958	9,282	8,604	109,572	10,500	999,280	981,253	18,027	1,700,560	28
1,269	592,031	195	39,612	14	1,859	165,613	20,854	10,360	104,938	28,961	1,122,537	1,054,654	67,883	2,514,356	29
530	219,794	264	58,510	1	225	54,550	7,681	7,157	39,412	300	2,103,515	2,060,308	43,207	2,645,205	30
192	93,821	104	25,297			15,891	1,984	3,623	10,329		521,908	494,957	26,951	854,036	31
1,086	490,358	462	108,209	6	719	152,323	10,905	9,655	128,970	2,783	1,322,880	1,282,275	40,605	2,621,951	32
858	359,858	30	7,182	3	370	63,906	4,374	6,471	49,331	3,730	679,921	668,775	11,146	1,309,129	33
415	152,408	87	6,474	6	602	54,333	6,254	4,538	43,393	235	368,482	361,607	6,875	731,063	34
222	86,210	106	22,714	2	268	24,991	9,690	3,143	12,204	54	377,601	372,542	5,059	642,503	35
260	109,351	33	4,984			13,140	3,636	2,653	11,851		305,399	293,104	12,295	574,988	36
1,670	749,692	84	17,359	4	343	178,236	12,235	22,610	105,677	37,714	3,299,905	2,849,804	450,101	5,715,112	37
128	56,427	16	3,504	3	432	16,399	3,891	8,158	9,150	700	258,791	180,344	76,447	510,111	38
875	339,101	68	15,886	1	250	18,195	5,281	5,006	7,883	25	1,079,937	1,065,825	14,112	1,599,562	39
592	251,871	61	14,423			94,815	9,576	5,962	78,826	451	540,074	526,347	13,727	1,118,629	40
865	495,557	319	96,282	103	22,770	97,284	8,092	6,162	73,030	10,000	1,197,266	1,178,080	19,186	2,219,695	41
159	30,364	18	4,888	2	150	9,400	4,211	1,268	3,921		334,820	330,810	4,010	571,832	42
483	278,537	6	1,300	2	825	102,977	5,220	9,133	97,138		1,943,900	1,850,209	93,691	2,725,457	43
559	221,882	24	6,546	13	2,822	228,010	4,891	14,905	73,664	135,050	1,232,579	1,180,931	51,648	2,300,960	44
2,088	1,085,516	83	20,494	40	9,579	615,457	3,291	16,761	576,532	18,870	6,544,799	5,792,078	752,721	9,547,952	45
2,460	1,073,027	692	138,013	8	1,417	807,182	80,171	22,294	254,017	700	3,195,033	3,122,063	72,970	7,084,508	46

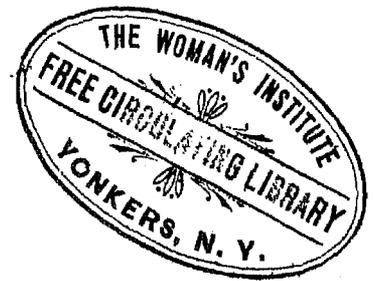
TABLE 9.—MANUFACTURES IN CITIES AND

CITIES AND VILLAGES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
47 Marietta.....	278	\$2,189,345	\$295,955	\$353,394	\$459,272	\$1,080,724	335	151	\$122,607	2,183	\$933,315
48 Marlon.....	84	3,340,321	345,526	408,979	343,579	2,237,237	78	132	126,013	1,552	699,065
49 Martins Ferry.....	50	1,802,871	167,055	287,208	663,281	685,327	56	59	66,888	967	543,416
50 Marysville.....	47	179,325	20,500	27,775	47,120	83,930	68	9	5,950	236	82,699
51 Massillon.....	184	4,444,400	328,028	505,281	972,200	2,637,988	149	122	127,335	1,336	914,245
52 Miamisburg.....	66	1,500,248	45,990	189,233	199,797	1,065,228	64	53	64,199	1,006	400,143
53 Middleport.....	38	197,039	20,131	39,332	57,085	80,491	39	19	11,204	225	89,325
54 Middletown.....	92	4,207,731	98,050	594,629	1,196,717	2,318,335	92	264	319,825	1,951	770,656
55 Mingo Junction.....	12	2,921,086	106,950	523,425	1,973,523	312,188	9	32	72,530	944	566,645
56 Mt. Vernon.....	93	830,061	62,200	172,375	296,691	298,795	110	62	52,345	853	383,638
57 Napoleon.....	78	443,500	30,300	88,725	93,025	236,450	94	13	7,395	233	91,322
58 Nelsonville.....	39	224,179	18,100	64,148	43,220	98,711	48	11	8,190	200	89,115
59 Newark.....	208	1,793,448	164,625	361,710	411,713	352,400	234	158	124,412	2,364	925,443
60 New Philadelphia.....	124	359,495	47,005	182,930	342,006	237,442	130	43	35,179	653	482,182
61 Niles.....	64	2,745,374	112,790	277,225	772,711	1,582,648	66	100	95,241	1,641	1,231,629
62 North Baltimore.....	39	133,793	17,329	23,171	50,609	97,084	45	8	7,820	112	49,048
63 Norwalk.....	96	995,025	42,600	158,600	306,976	486,849	91	63	57,056	817	394,585
64 Norwood.....	52	961,314	36,500	166,895	166,081	581,338	51	39	30,743	467	203,138
65 Painesville.....	77	513,621	67,025	77,795	137,108	231,698	88	34	27,872	488	165,403
66 Piqua.....	152	3,609,002	323,493	636,106	791,682	1,957,721	166	207	203,001	2,103	983,836
67 Pomeroy.....	70	852,132	70,410	166,681	280,990	334,042	69	43	31,142	725	341,959
68 Portsmouth.....	284	4,113,700	355,576	730,416	1,025,636	1,952,072	315	381	310,355	4,586	1,556,190
69 Ravenna.....	76	821,127	36,130	157,605	199,966	427,426	90	46	43,845	740	279,153
70 St. Marys.....	57	556,209	48,700	129,150	162,493	216,861	60	44	39,318	453	192,711
71 Salem.....	108	2,090,703	95,085	323,362	600,233	1,071,973	117	121	116,022	977	569,352
72 Sandusky.....	176	4,627,981	437,631	880,276	1,381,604	1,028,470	137	158	141,637	1,648	650,895
73 Shelby.....	63	2,409,230	70,326	570,939	1,117,879	650,086	69	77	88,827	1,045	478,446
74 Sidney.....	107	1,173,805	75,270	219,710	307,582	571,243	125	84	62,804	935	337,610
75 Steubenville.....	171	2,587,180	385,911	609,950	771,287	820,032	189	100	84,523	2,051	874,095
76 Tiffin.....	153	2,319,720	145,019	483,710	714,376	971,615	168	110	77,730	1,368	569,660
77 Toronto.....	40	649,653	71,700	220,402	168,203	189,343	40	38	33,262	640	315,400
78 Troy.....	104	1,664,085	77,000	242,678	219,479	1,124,928	140	81	76,242	899	355,227
79 Uhrichsville.....	78	273,602	25,098	89,138	53,743	105,623	76	24	14,380	271	104,650
80 Upper Sandusky.....	35	288,744	25,625	51,404	73,727	137,988	44	10	6,625	165	60,477
81 Urbana.....	112	1,122,435	81,753	227,997	292,595	520,090	137	70	53,836	811	273,322
82 Van Wert.....	81	434,678	60,430	53,615	150,771	169,862	74	25	14,907	354	150,514
83 Wapakoneta.....	60	462,777	33,790	58,955	87,814	282,218	70	24	14,493	411	142,628
84 Warren.....	110	2,952,697	130,955	357,495	897,974	1,566,273	115	133	161,737	1,948	835,718
85 Washington Court House.....	67	403,031	20,132	53,999	170,823	158,072	75	28	20,153	276	101,849
86 Wellston.....	41	855,606	35,350	247,550	145,103	427,603	42	17	15,985	333	160,075
87 Wellsville.....	61	1,233,853	93,510	257,336	409,994	413,023	67	66	59,400	969	511,904
88 Wilmington.....	61	247,783	16,350	30,100	32,527	103,806	78	14	12,916	188	78,635
89 Wooster.....	97	626,188	68,415	127,425	184,297	246,051	105	47	29,501	447	169,490
90 Xenia.....	106	1,319,614	75,600	224,049	507,297	1,012,633	128	53	72,051	1,105	394,336

VILLAGES UNDER 20,000 IN POPULATION: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1,942	\$80,017	197	\$42,836	44	\$5,962	\$214,720	\$20,098	\$18,186	\$100,877	\$75,565	\$1,809,687	\$1,846,988	\$52,649	\$3,895,498	47
1,466	683,326	64	13,164	22	2,576	306,033	11,378	25,128	268,227	1,300	1,200,766	1,127,509	73,247	2,841,903	48
836	509,691	106	31,216	25	2,509	90,518	1,949	10,340	78,148	75	1,953,872	1,816,604	137,268	2,968,048	49
210	77,640	25	4,859	1	200	20,506	4,122	1,486	13,398	1,600	165,241	160,146	5,095	347,283	50
1,677	881,987	53	11,816	106	20,942	173,155	11,148	10,221	150,286	500	1,568,257	1,494,820	68,437	3,404,012	51
817	360,274	170	36,421	19	3,448	83,122	4,668	6,895	71,559	—	1,300,718	1,281,481	19,232	2,131,005	52
200	66,125	8	1,490	17	1,710	13,022	2,756	1,971	7,895	900	154,866	145,637	9,229	333,312	53
1,473	639,125	467	130,831	11	700	2,112,601	18,226	25,424	2,078,951	—	3,056,601	2,945,736	111,865	6,665,226	54
943	566,385	1	260	—	—	131,395	692	18,622	112,181	—	5,526,128	4,977,937	548,191	7,563,573	55
799	372,117	54	11,521	—	—	53,773	9,180	6,042	38,551	—	1,073,247	1,060,719	12,528	1,716,532	56
205	85,530	27	6,117	1	175	25,045	3,859	2,498	18,638	50	295,390	287,807	7,583	541,572	57
182	76,491	13	3,166	5	458	12,107	2,662	1,911	7,594	—	117,257	100,713	16,544	258,148	58
2,008	841,720	281	65,723	75	18,000	223,797	19,286	18,949	167,025	28,637	1,417,157	1,375,210	41,947	3,423,186	59
556	465,293	92	16,291	5	598	86,576	6,154	7,759	63,931	8,732	905,007	863,621	41,386	1,820,296	60
1,617	1,225,563	24	6,066	—	—	123,647	5,043	9,005	109,599	—	3,441,219	3,145,685	295,634	5,758,129	61
96	44,931	16	4,117	—	—	16,052	2,673	1,214	12,165	—	100,695	96,681	4,014	243,882	62
717	367,597	91	25,409	9	1,579	128,033	9,122	5,903	110,579	2,434	561,996	550,402	11,594	1,330,393	63
422	194,810	35	6,768	10	1,560	52,839	2,739	2,799	47,301	—	430,221	425,662	4,559	820,892	64
442	155,412	43	9,857	3	634	36,914	6,989	2,169	24,831	—	319,300	309,431	9,869	693,949	65
1,787	917,322	315	65,891	1	123	259,807	18,521	18,773	203,977	18,536	3,765,259	3,685,028	80,231	5,886,475	66
665	331,455	48	7,846	17	2,638	40,898	3,882	5,456	31,260	300	961,112	918,600	42,512	1,522,626	67
3,444	1,347,575	1,043	197,652	99	10,963	802,946	22,820	25,852	710,000	44,274	3,324,038	3,668,916	155,177	7,532,976	68
498	221,189	217	52,464	25	5,500	45,790	7,108	4,818	31,904	460	550,204	522,303	27,901	1,210,415	69
410	183,707	43	9,004	—	—	37,786	4,119	4,053	22,646	6,908	402,842	497,731	25,111	893,823	70
843	520,140	428	41,139	6	2,073	135,608	10,278	9,872	118,374	2,079	1,230,584	1,190,505	31,079	2,380,424	71
1,397	602,394	207	41,473	44	7,028	379,042	22,833	19,070	336,999	140	1,394,147	1,825,649	68,498	3,190,342	72
860	442,161	182	35,915	3	370	194,204	3,335	11,516	112,813	6,000	1,770,640	1,701,727	68,913	2,625,066	73
774	304,108	159	33,245	2	257	101,178	6,837	8,465	35,776	100	1,088,669	1,064,793	23,876	1,858,626	74
1,613	778,433	240	61,477	192	34,135	227,624	76,387	16,051	130,570	4,615	2,698,875	2,104,699	594,176	5,235,161	75
1,066	500,422	206	67,906	6	1,332	194,471	13,459	13,367	167,024	621	900,003	814,449	85,554	2,107,805	76
560	295,509	63	17,827	12	2,064	66,130	1,700	4,788	54,642	5,000	235,721	178,154	57,567	809,446	77
723	316,812	175	38,840	1	75	197,579	8,051	7,457	181,000	1,032	1,135,619	1,117,837	17,782	2,019,557	78
227	95,077	41	9,165	3	408	25,694	2,505	1,170	13,215	8,804	197,070	186,286	10,784	446,780	79
151	57,954	13	2,419	1	104	21,655	2,142	2,414	17,099	—	187,106	182,203	4,903	357,505	80
673	245,612	134	27,270	4	940	94,404	9,621	8,775	75,433	575	770,733	744,229	26,504	1,477,962	81
313	142,151	41	8,363	—	—	42,348	4,878	3,327	13,574	20,569	318,575	305,814	7,761	627,672	82
387	138,403	18	3,784	6	441	49,429	5,927	4,251	38,992	459	289,717	283,556	6,161	604,781	83
1,646	762,158	286	72,460	16	1,100	198,109	9,838	8,014	119,782	60,475	2,671,115	2,506,619	164,496	4,840,160	84
204	83,591	69	17,958	3	300	24,376	5,860	2,795	15,623	92	352,233	346,335	5,898	650,399	85
320	166,619	10	2,112	3	344	27,327	1,336	3,181	22,160	150	595,415	423,514	171,901	1,056,110	86
906	495,820	62	16,018	1	126	47,624	3,678	5,738	35,050	3,158	660,918	587,396	73,522	1,548,190	87
179	76,882	8	1,678	1	75	21,860	4,023	1,624	15,593	612	241,511	235,966	5,545	440,237	88
860	153,800	86	15,490	1	200	37,114	7,021	3,257	25,096	1,740	463,725	443,154	20,571	985,579	89
897	343,582	207	50,679	1	125	139,647	10,951	11,398	101,898	15,400	2,171,360	2,142,619	28,741	3,122,797	90

Twelfth Census of the United States.



CENSUS BULLETIN.

No. 155.

WASHINGTON, D. C.

April 12, 1902.

AGRICULTURE.

ALABAMA.

HON. WILLIAM R. MERRIAM,
Director of the Census.

SIR: I have the honor to transmit herewith, for publication in bulletin form, the statistics of agriculture for the state of Alabama, taken in accordance with the provisions of section 7 of the act of March 3, 1890. This section requires that—

The schedules relating to agriculture shall comprehend the following topics: Name of occupant of each farm, color of occupant, tenure, acreage, value of farm and improvements, acreage of different products, quantity and value of products, and number and value of live stock. All questions as to quantity and value of crops shall relate to the year ending December thirty-first next preceding the enumeration.

A "farm," as defined by the Twelfth Census, includes all the land, under one management, used for raising crops and pasturing live stock, with the wood lots, swamps, meadows, etc., connected therewith. It also includes the house in which the farmer resides, and all other buildings used by him in connection with his farming operations.

The farms of Alabama, June 1, 1900, numbered 223,220 and were valued at \$134,618,183. Of this amount \$34,452,612, or 25.6 per cent, represents the value of buildings, and \$100,165,571, or 74.4 per cent, the value of land and improvements other than buildings. On the same date the value of farm implements and machinery was \$8,675,900, and of live stock, \$36,105,799. These values, added to that of farms, give \$179,390,882, the "total value of farm property."

The products derived from domestic animals, poultry, and bees, including animals sold and animals slaughtered on farms, are referred to in this bulletin as "animal products." The total value of such products, together

with the value of all crops, is termed "total value of farm products." This value for 1899 was \$91,387,409, of which amount \$18,196,689, or 19.9 per cent, represents the value of animal products, and \$73,190,720, or 80.1 per cent, the value of crops, including forest products. The total value for 1899 exceeds that reported for 1889 by \$25,147,219, or 38.0 per cent. A large part of this apparent increase is doubtless due to a more detailed enumeration in 1900 than in 1890.

The value of "net farm products" or the "gross farm income" is obtained by deducting from the "total value of farm products" the value of the products fed to live stock on the farms of the producers. In 1899 the reported value of products fed was \$10,095,690, leaving \$81,291,719 as the gross farm income for that year. The percentage which this amount is of the "total value of farm property" is referred to in the text of the bulletin as the "percentage of gross income upon investment." For Alabama in 1899 it was 45.3 per cent. As no reports of expenditures for taxes, interest, insurance, feed for stock, and similar items have been obtained by any census, no statement of net farm income can be given.

The statistics presented in this bulletin will be treated in greater detail in the final report on agriculture in the United States, which will be published about June 1, 1902. The present publication is designed to present a summarized advance statement for Alabama.

Very respectfully,

A handwritten signature in cursive script that reads "L. G. Powers."

Chief Statistician for Agriculture.

AGRICULTURE IN ALABAMA.

GENERAL STATISTICS.

Alabama has a total land surface of 51,540 square miles, or 32,985,600 acres, of which 20,685,427 acres, or 62.7 per cent, are included in farms. The Appalachian mountain system terminates in the northern part of the state, rendering its surface rugged and broken. The southern half of the state is a low, level, plain, sloping gently from the mountain region to the Gulf and drained by numerous large rivers.

With respect to soils, the state may be divided into four great belts, namely, the cereal, mineral, cotton, and timber belts. The northern, or cereal belt, includes the valleys of the Tennessee River and its tributaries. The deep, red, calcareous soil of these valleys is especially adapted to grain production. South of this region is the mineral belt. A red or gray loam with a heavy clay subsoil is the prevailing soil of this section, much of which is not adapted to cultivation. South of the mining district is the cotton belt, comprising an area approximately one hundred miles wide on the western border and sixty miles on the eastern. It has a great variety of soils, the most productive being the deep black loam of the creek and river bottoms. In the extreme southern part of the state lies the timber belt, the soil of which, though not generally very fertile, is fairly productive when carefully cultivated.

NUMBER AND SIZE OF FARMS.

The following table shows, by decades since 1850, the number of farms, the total and average acreage, and the per cent of farm land improved.

TABLE 1.—FARMS AND FARM ACREAGE: 1850 TO 1900.

YEAR.	Number of farms.	NUMBER OF ACRES IN FARMS.				Per cent of farm land improved.
		Total.	Improved.	Unimproved.	Average.	
1900	223,220	20,685,427	8,654,991	12,030,436	92.7	41.8
1890	157,772	19,853,000	7,698,343	12,154,657	125.8	38.8
1880	135,861	18,856,334	6,375,706	12,479,628	188.8	33.8
1870	67,382	14,961,178	5,062,204	9,898,974	222.0	33.8
1860	55,128	19,104,545	6,385,724	12,718,821	345.5	33.4
1850	41,964	12,137,681	4,435,614	7,702,067	289.2	36.5

The number of farms in 1900 was over five times as great as in 1850, and 41.5 per cent greater than in 1890. The total acreage has not increased so rapidly, the gain since 1850 being but 70.4 per cent, and, in the last decade but 4.2 per cent. The average size of farms in 1900 was less than one-third of what it was in 1850. This reduction in the average size and increase in the number of farms, which, of course, represents an increase in the number of farmers, is a natural accompaniment of the general agricultural development of the state. As is indicated by the increase since 1860 in the percentage of farm land im-

proved, the cultivation of the soil is more intensive, and the utilization of available farming land is more complete.

FARM PROPERTY AND PRODUCTS.

Table 2 presents a summary of the principal statistics relating to farm property and products for each census year, beginning with 1850.

TABLE 2.—VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND OF PRODUCTS: 1850 TO 1900.

YEAR.	Total value of farm property.	Land, improvements, and buildings.	Implements and machinery.	Live stock.	Farm products. ¹
1900	\$179,399,882	\$134,618,183	\$8,675,900	\$36,105,799	\$91,387,409
1890	146,339,765	111,051,390	4,511,645	30,776,730	66,240,190
1880	106,581,307	78,954,648	3,788,978	23,787,681	56,872,994
1870 ²	97,716,055	87,739,036	3,286,924	26,690,095	* 67,522,385
1860	226,069,511	175,824,622	7,483,178	48,411,711	-----
1850	91,138,999	64,323,224	6,125,663	21,690,112	-----

¹ For year preceding that designated.

² Values for 1870 were reported in depreciated currency. To reduce to specie basis of other figures they must be diminished one-fifth.

³ Includes betterments and additions to live stock.

The decade 1850 to 1860 was a period of remarkable agricultural development in all of the states where cotton was a staple crop. An active demand for the fiber at profitable prices, together with the increasing supply and efficiency of slave labor, encouraged the planters to increase their capital, and especially their holdings of available land, to the greatest possible extent. The rapidity of the expansion is plainly reflected in the figures of the table. In ten years the total value of farm property increased 148.7 per cent, and the value of land, buildings, and improvements, and of live stock, more than doubled. The figures for 1870 show most strikingly the disastrous effect of the Civil War. The marked advance of the preceding decade was abruptly checked, and in 1870 the total value of the agricultural resources of the state was but little greater than twenty years before. The severity of the blow is made evident by the slowness of recovery. The gain made in the total value of farm property during the thirty years from 1870 to 1900 was 39.7 per cent less than the gain for the prosperous ten-year period between 1850 and 1860, and the present census shows that in but one class of farm property, that of implements and machinery, has the state regained, as yet, the position it occupied in 1860.

The progress made during the last decade is noteworthy. The total value of farm property increased \$33,060,117, or 22.6 per cent, of which amount \$23,566,793, or 71.3 per cent, represents the gain in the value of land, improvements, and buildings; \$4,164,255, or 12.6 per cent, in that of implements and machinery; and \$5,329,069, or 16.1 per cent, in that of live stock. The value of farm products reported for 1899 is 38.0 per cent greater than

the value reported for 1889. Part of this increase, and of that in the value of implements and machinery and live stock, is doubtless the result of a more detailed enumeration in 1900 than in previous census years.

COUNTY STATISTICS.

Table 3 gives an exhibit of general agricultural statistics by counties.

TABLE 3.—NUMBER AND ACREAGE OF FARMS, AND VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, JUNE 1, 1900, WITH VALUE OF PRODUCTS OF 1899 NOT FED TO LIVE STOCK, AND EXPENDITURES IN 1899 FOR LABOR AND FERTILIZERS, BY COUNTIES.

COUNTIES.	NUMBER OF FARMS.		ACRES IN FARMS.		VALUES OF FARM PROPERTY.				Value of products not fed to live stock.	EXPENDITURES.	
	Total.	With build-ings.	Total.	Improved.	Land and improve-ments (ex-cept build-ings).	Buildings.	Imple-ments and machinery.	Live stock.		Labor.	Fertili-zers.
The State	223, 220	212, 551	20, 685, 427	8, 651, 991	\$100, 165, 571	\$34, 452, 612	\$8, 675, 900	\$36, 105, 799	\$81, 291, 719	\$1, 314, 460	\$2, 599, 290
Autauga	2, 548	2, 298	244, 511	98, 612	1, 097, 667	380, 825	92, 870	354, 161	963, 803	52, 160	29, 170
Baldwin	687	679	151, 632	13, 552	360, 500	212, 730	42, 220	294, 988	209, 019	18, 680	17, 120
Barbour	4, 516	4, 373	452, 912	224, 766	1, 667, 689	576, 049	170, 610	635, 219	1, 772, 788	83, 590	73, 050
Bibb	1, 740	1, 658	184, 363	52, 128	975, 775	310, 255	85, 780	845, 649	677, 125	29, 140	84, 240
Blount	3, 563	3, 485	321, 441	128, 769	1, 229, 990	480, 760	134, 620	512, 990	1, 118, 281	23, 200	89, 370
Bullock	5, 005	4, 831	344, 763	210, 491	1, 992, 279	512, 340	196, 420	656, 860	1, 885, 805	124, 180	82, 440
Butler	3, 249	3, 046	334, 719	134, 763	1, 322, 950	507, 975	107, 970	485, 628	1, 325, 370	61, 080	54, 500
Calhoun	2, 991	2, 850	222, 775	100, 622	1, 845, 790	640, 510	136, 170	501, 277	1, 023, 045	36, 970	29, 170
Chambers	4, 132	3, 961	345, 728	190, 070	2, 194, 844	775, 576	179, 090	653, 086	1, 936, 124	164, 770	134, 200
Cherokee	2, 947	2, 883	255, 064	111, 907	1, 546, 130	631, 820	140, 410	536, 998	1, 107, 511	37, 580	36, 630
Chilton	2, 323	2, 262	221, 471	80, 663	950, 433	442, 930	90, 100	376, 417	807, 124	35, 440	38, 230
Choctaw	2, 883	2, 784	361, 605	107, 684	810, 980	383, 520	93, 410	451, 683	872, 960	43, 610	15, 800
Clarke	3, 972	3, 789	478, 967	135, 633	1, 283, 726	620, 939	138, 200	684, 346	1, 181, 944	58, 820	23, 180
Clay	2, 857	2, 843	258, 731	67, 313	618, 330	214, 940	59, 790	420, 075	931, 224	10, 710	29, 170
Cleburne	2, 086	1, 999	201, 531	67, 849	920, 300	282, 120	75, 560	289, 347	561, 536	20, 980	28, 970
Coffee	2, 849	2, 760	331, 975	131, 093	1, 219, 263	398, 830	106, 210	463, 482	1, 208, 032	57, 820	89, 760
Colbert	2, 378	2, 304	222, 562	102, 614	1, 338, 670	408, 000	93, 460	437, 901	818, 433	27, 230	5, 570
Conecuh	2, 457	2, 390	270, 515	89, 098	894, 290	436, 670	109, 750	369, 870	743, 753	44, 130	33, 140
Coosa	2, 535	2, 521	299, 445	96, 176	857, 303	392, 750	96, 850	391, 225	916, 404	30, 340	27, 970
Covington	1, 911	1, 913	260, 001	67, 773	682, 990	310, 130	67, 620	336, 724	644, 361	17, 450	42, 620
Crenshaw	2, 972	2, 852	288, 354	131, 413	943, 888	347, 025	96, 520	407, 682	1, 292, 662	51, 270	72, 820
Cullman	2, 938	2, 912	269, 794	94, 116	1, 189, 370	574, 910	123, 180	431, 841	803, 500	16, 810	35, 900
Dale	3, 062	2, 906	337, 276	148, 763	1, 132, 100	456, 471	136, 100	471, 320	1, 405, 370	51, 780	78, 340
Dallas	7, 141	6, 813	465, 559	230, 269	2, 942, 636	842, 737	243, 110	1, 007, 427	2, 666, 386	136, 090	33, 170
Dekalb	4, 004	3, 851	340, 884	126, 693	1, 445, 330	595, 600	139, 330	626, 024	1, 184, 911	22, 570	47, 750
Elmore	3, 421	3, 210	312, 585	139, 323	1, 493, 670	592, 643	139, 720	513, 636	1, 283, 423	110, 760	49, 690
Escambia	2, 959	2, 836	102, 794	28, 131	347, 670	203, 670	36, 030	228, 504	249, 884	12, 120	15, 270
Etowah	2, 735	2, 614	235, 359	99, 719	1, 311, 010	703, 390	195, 410	454, 387	980, 428	32, 800	39, 120
Fayette	2, 371	2, 273	310, 470	82, 312	741, 710	311, 960	85, 060	391, 065	861, 118	18, 820	20, 560
Franklin	2, 239	2, 134	276, 265	80, 344	387, 210	230, 400	92, 140	376, 764	634, 213	8, 350	16, 180
Genev	2, 290	2, 193	305, 019	101, 552	919, 770	372, 130	85, 820	393, 137	887, 076	40, 560	69, 590
Greene	4, 130	3, 994	293, 042	160, 887	1, 537, 931	475, 450	142, 610	628, 749	1, 435, 360	92, 690	8, 740
Hale	3, 805	3, 648	336, 133	174, 725	2, 517, 604	571, 658	165, 070	730, 290	1, 673, 156	134, 730	12, 950
Henry	4, 609	4, 325	537, 022	239, 338	2, 104, 457	715, 913	183, 020	641, 197	2, 036, 613	103, 410	118, 220
Jackson	4, 244	4, 144	443, 592	155, 052	2, 919, 910	723, 760	178, 500	946, 574	1, 392, 840	49, 750	11, 740
Jefferson	3, 776	3, 667	287, 048	103, 570	2, 307, 740	1, 023, 060	193, 730	766, 180	1, 400, 839	73, 050	37, 040
Lamar	2, 596	2, 545	325, 576	94, 013	907, 180	344, 950	87, 450	437, 647	869, 739	17, 250	24, 210
Lauderdale	3, 210	3, 118	321, 513	127, 490	1, 391, 660	506, 090	142, 330	558, 209	1, 070, 682	29, 280	10, 830
Lawrence	3, 196	3, 089	291, 443	136, 934	1, 533, 040	461, 550	121, 540	533, 623	997, 057	24, 710	17, 070
Lee	3, 551	3, 404	327, 933	171, 187	1, 327, 705	718, 905	154, 810	519, 963	1, 546, 133	118, 500	74, 340
Limestone	3, 584	3, 478	269, 523	139, 730	2, 171, 630	623, 960	148, 340	535, 370	1, 172, 758	40, 120	22, 890
Lowndes	7, 032	5, 533	343, 466	222, 603	2, 457, 840	709, 670	160, 870	823, 020	2, 136, 352	146, 390	17, 030
Macon	3, 821	3, 730	253, 470	142, 568	1, 465, 152	483, 045	108, 810	496, 820	1, 207, 423	106, 250	38, 330
Madison	5, 142	4, 978	389, 370	225, 384	3, 695, 365	1, 037, 225	290, 680	950, 531	2, 046, 718	113, 770	26, 800
Marengo	5, 583	5, 102	432, 475	226, 574	2, 538, 001	717, 645	193, 160	914, 775	2, 071, 924	182, 310	13, 090
Marion	2, 466	2, 376	324, 783	79, 419	652, 850	274, 470	81, 050	391, 006	694, 609	15, 230	23, 610
Marshall	3, 806	3, 659	325, 737	127, 260	1, 578, 230	537, 790	128, 560	599, 982	1, 220, 544	37, 990	44, 120
Mobile	869	851	105, 137	17, 464	895, 130	493, 890	82, 490	422, 850	823, 618	48, 020	69, 710
Monroe	3, 549	3, 390	444, 356	144, 485	1, 400, 916	595, 245	132, 420	526, 237	1, 210, 103	78, 470	36, 430
Montgomery	5, 762	5, 300	371, 974	261, 974	3, 822, 674	933, 260	221, 290	1, 005, 629	2, 519, 888	173, 420	37, 100
Morgan	3, 079	2, 957	272, 078	120, 827	1, 479, 760	562, 540	145, 140	561, 237	1, 018, 046	25, 150	16, 800
Perry	4, 695	4, 374	374, 143	182, 462	2, 047, 803	724, 400	179, 470	750, 817	1, 790, 970	164, 220	13, 900
Pickens	4, 164	4, 005	456, 378	147, 443	1, 667, 063	536, 035	125, 970	620, 288	1, 424, 273	81, 140	32, 970
Pike	4, 010	3, 762	349, 484	189, 405	1, 903, 005	531, 795	136, 530	630, 297	2, 042, 235	86, 470	133, 480
Randolph	3, 532	3, 428	303, 472	135, 715	1, 303, 480	442, 900	136, 460	573, 753	1, 262, 390	56, 290	73, 420
Russell	3, 181	2, 984	304, 511	157, 423	1, 505, 217	502, 590	142, 060	494, 687	1, 266, 305	103, 480	46, 120
St. Clair	2, 654	2, 590	243, 929	93, 089	1, 107, 470	439, 130	114, 140	475, 915	925, 616	13, 190	23, 020
Shelby	2, 476	2, 411	220, 997	91, 423	1, 147, 760	469, 130	115, 670	473, 029	955, 949	17, 960	25, 150
Sumter	5, 140	4, 938	406, 501	220, 971	1, 991, 250	632, 050	164, 660	932, 934	1, 947, 694	155, 760	14, 230
Talladega	3, 964	3, 863	287, 128	155, 546	2, 131, 480	689, 230	180, 530	675, 314	1, 670, 380	83, 280	63, 490
Tallapoosa	4, 334	4, 101	426, 176	177, 700	2, 032, 800	704, 140	166, 680	627, 471	1, 760, 352	75, 270	94, 940
Tuscaloosa	3, 894	3, 772	410, 762	145, 128	1, 639, 034	501, 255	181, 740	714, 026	1, 523, 185	86, 490	49, 130
Walker	2, 463	2, 375	287, 335	74, 322	924, 640	336, 900	93, 330	452, 563	774, 609	19, 940	14, 770
Washington	1, 171	1, 143	208, 754	27, 928	626, 570	240, 500	51, 510	366, 973	335, 199	21, 490	20, 580
Wilcox	6, 011	5, 616	437, 629	214, 166	2, 090, 970	673, 116	178, 110	874, 565	2, 064, 347	165, 230	17, 310
Winston	1, 642	1, 594	266, 493	51, 905	399, 030	190, 500	51, 490	228, 931	393, 506	6, 990	12, 030

In the last decade the number of farms increased in all counties, those showing the greatest percentages of increase being Washington, with 115.7 per cent; Baldwin, with 108.2; Talladega, with 82.7; Franklin, with 68.7; and Lawrence, with 67.0.

Comparison with the figures of the Eleventh Census, shows an increase in the acreage of farm land in two-thirds of the counties of the state, and a still more general increase in improved acreage. The counties showing decreases in both total and improved farm acreage in the last ten years are Barbour, Chambers, Lawrence, Montgomery, Sumter, and Wilcox.

The average size of farms varies from 220.7 acres in Baldwin county to 48.5 acres in Lowndes, being, as a rule, smallest for the counties having the greatest acreages of cotton.

Between 1890 and 1900 the value of farms decreased in Barbour, Blount, Clay, Dale, Hale, Lawrence, Morgan, and Wilcox counties. All other counties show increases. For the state the average value of farms is \$603.07. The only county in which the average value exceeds \$1,000 is Mobile; and the lowest average is in Clay county, where it is less than \$300.

Every county shows a marked gain, since 1890, in the value of implements and machinery, the value in most cases having more than doubled; and every county except Blount, Limestone, and Pickens reports a gain in the capital invested in live stock.

The average expenditures per farm for labor varied greatly, being highest in the counties of the cotton belt and lowest in the northwestern counties.

The amount expended for fertilizers in 1899 was slightly greater than in 1889, and ranged in general from 5 cents to \$1.00 per acre of improved land. By far the highest expenditure is shown for Mobile county—almost \$4.00 per acre. In this county the few farms are subjected to a very intensive system of cultivation, while the soil, being sandy, requires more than the average amount of fertilization.

INCREASE IN THE NUMBER OF FARMERS IN ALABAMA.

In this bulletin those individuals who, as owners, salaried managers, or tenants, operate farms with or without the assistance of members of their household or hired laborers, are designated "farmers." All others working on farms are spoken of as "farm laborers." The number of farmers at any given time corresponds closely to the number of farms.

Since 1850 the population of Alabama has increased from 771,023 to 1,828,697, or rather more than twofold, while the number of farms has advanced from 41,964 to 223,220, or over fivefold. In every decade, except from 1880 to 1890, the rate of gain in the number of farms, and, consequently, in the number of persons operating farms as owners or tenants, has exceeded that in population.

That these facts, and those contained in Tables 4, 4a, and 5, which follow, may be seen in their true relation to the

agricultural conditions and changes on Alabama farms, they should be studied in connection with the census statistics of occupations. Those statistics are available for 1880 and 1890, but not as yet for 1900. In 1880, the total number of males engaged in agriculture was 291,477, while in 1890 it was 288,814. In 1880, 151,565 of the total number were laborers working for wages, while in 1890 the number of laborers was but 118,798. In connection with each 1,000 farms there were, in 1880, 2,145 males employed in some capacity. Of that number, approximately 532 operated farms as owners; 468, as tenants; 1,116 were farm laborers working for wages; and 29 were employed for wages at special occupations, such as gardening, floriculture, etc. In 1890 for each 1,000 farms 1,831 males were employed, of whom 514 operated farms as owners; 486, as tenants; 753 were employed as farm laborers; and 78, at special occupations.

As showing the relative changes in the four classes of farming population, the following comparative statement is presented: Of every 1,000 males engaged in agriculture in 1880, approximately 248 operated farms as owners; 218, as tenants; 520 worked as farm laborers; and 14 worked for wages at special occupations. In 1890 there were 281 owners, 265 tenants, 411 farm laborers, and 43 special wage laborers. In 1890 the persons operating farms as owners or tenants, and the special wage laborers, constituted a larger proportion of the total number of males engaged in agriculture than they did in 1880, while the number of farm laborers in 1890 was absolutely, as well as relatively, smaller.

The total farming population varies from decade to decade approximately with the number of males engaged in agriculture. The figures given above show that, compared with the total farming population, farm owners were 13.3 per cent more numerous and tenants 21.6 per cent more numerous in 1890 than in 1880, while laborers were 20.0 per cent less numerous. The relative changes thus shown in these classes resulted in raising the average social and economic level of the farming population. Whether caused by the rise of wage laborers to farm ownership, or tenancy, as appears probable from the figures reviewed, or by additions to the classes of owners or tenants from other occupations, this elevation is a beneficent change in all its aspects.

The occupation tables for 1900 are not yet completed, but if the changes in rural population are reliable indices of the changes in the farming population proper, the movement noted for the decade from 1880 to 1890 continued with but slight modification in the last decade, and the average condition of people toiling on Alabama farms has been raised even more in the last ten years than is shown by the foregoing comparisons for the preceding decade.

FARM TENURE.

In connection with the changes noted above, attention is called to the specific changes in farm tenure shown in Tables 4, 4a, and 5.

Table 4 gives a comparative exhibit of farms operated by owners and tenants for 1880, 1890, and 1900. The farms

operated by tenants are subdivided into two groups designated as farms operated by "cash tenants," and farms operated by "share tenants." These groups comprise, respectively: (1) Farms operated by individuals who pay a cash rental or a stated amount of labor or farm produce; and (2) farms operated by individuals who pay as rental a share of the products.

Table 4a presents, for the two decades covered by Table 4, the per cent of increase in rural population, in the total number of farms, and in the number of farms of specified tenures. In Table 5 the tenure of farms for 1900 is given by race of farmer, and the farms operated by owners are subdivided into groups, designated as farms operated by "owners," "part owners," "owners and tenants," and "managers." These groups comprise, respectively: (1) Farms operated by individuals who own all the land they cultivate; (2) farms operated by individuals who own a part of the land and rent the remainder from others; (3) farms operated under the joint direction and by the united labor of two or more individuals, one owning the farm or part of it, and the other or others owning no part, but receiving for supervision or labor a share of the products; and (4) farms operated by individuals who receive for their supervision and other services a fixed salary from the owners.

TABLE 4.—NUMBER AND PER CENT OF FARMS OF SPECIFIED TENURES: 1880 TO 1900.

YEAR.	Total number of farms.	NUMBER OF FARMS OPERATED BY—			PER CENT OF FARMS OPERATED BY—		
		Owners. ¹	Cash tenants.	Share tenants.	Owners. ¹	Cash tenants.	Share tenants.
1900	223,220	94,346	74,330	54,544	42.3	33.3	24.4
1890	157,772	81,141	38,931	37,700	51.4	24.7	23.9
1880	135,864	72,215	22,888	40,761	53.2	16.8	30.0

¹ Including "part owners," "owners and tenants," and "managers."

TABLE 4a.—PER CENT OF INCREASE IN RURAL POPULATION, IN THE TOTAL NUMBER OF FARMS, AND IN THE NUMBER OF FARMS OF SPECIFIED TENURES, FOR THE DECADES 1880 TO 1890 AND 1890 TO 1900, AND FOR THE TWENTY-YEAR PERIOD, 1880-1900.

PERIODS.	PER CENT OF INCREASE IN—					
	Rural population.	Total number of farms.	Number of farms operated by—			
			All owners.	All tenants.	Cash tenants.	Share tenants.
1890-1900	16.6	41.5	16.3	68.2	90.9	44.7
1880-1890	15.0	16.1	12.4	20.4	70.1	17.5
1880-1900	34.1	64.3	30.6	102.5	224.8	33.3

¹ Decrease.

TABLE 5.—NUMBER AND PER CENT OF FARMS OF SPECIFIED TENURES, JUNE 1, 1900, CLASSIFIED BY RACE OF FARMER.

PART 1.—NUMBER OF FARMS OF SPECIFIED TENURES.

RACE.	Total number of farms.	Owners.	Part owners.	Owners and tenants.	Managers.	Cash tenants.	Share tenants.
The State	223,220	81,046	11,557	869	874	74,330	54,544
White	129,187	69,923	8,686	753	802	18,118	30,855
Colored	94,033	11,123	2,871	116	72	56,212	23,689
Negro	94,069	11,112	2,871	116	72	56,209	23,689
Indian	34	11				3	

PART 2.—PER CENT OF FARMS OF SPECIFIED TENURES.

The State	100.0	36.3	5.2	0.4	0.4	33.3	24.4
White	100.0	54.2	6.7	0.6	0.6	14.0	23.9
Colored	100.0	11.8	3.1	0.1	0.1	59.7	25.2

Of the farms of the state, 57.9 per cent are operated by white farmers, and 42.1 per cent by colored farmers. Of the white farmers, 61.5 per cent own all or a part of the farms they operate, 37.9 per cent are tenants, and 0.6 per cent are managers. Of the colored farmers, 15.0 per cent are owners, 84.9 per cent are tenants, and 0.1 per cent are managers.

The relative number of farms rented for cash or for a share of the products is determined largely by the race of farmer and the kind of crops grown. In the counties where diversified farming prevails, and a large proportion of the farmers are white, share tenants greatly outnumber cash tenants, but in the leading cotton-growing counties, where nearly all farmers are colored, the proportion of cash tenants is greater. In the cotton-growing counties most of the white tenants rent for cash, but among colored farmers it is difficult to draw the distinguishing line very closely, as the leasing contract is often such as to make the lessee partly a cash and partly a share tenant. The reported increases in the relative number of cash tenants are confined principally to the cotton-growing counties.

No previous census has reported the number of farms operated by "part owners," "owners and tenants," or "managers," but it is believed that the number conducted by the last-named class is constantly increasing.

PROGRESS OF COLORED FARMERS.

In 1850 the number of colored farmers was practically a negligible quantity. In 1900 it was 94,083, indicating the rise of substantially that number from the status of slaves or wage laborers to that of farmers.

The Eleventh Census, in its report on "Farms and Homes," gives valuable statistics relating to the number

of colored farmers owning and renting farms, the only statistics of the kind which can be used, in connection with Table 5, to throw any light upon the changes in the status of negro farmers in the last decade. These statistics are not, it is true, strictly comparable with the statistics of farm tenure collected by the division of agriculture, but after making due allowance for variations, a careful comparison indicates that during the last decade the number of colored owners and tenants increased nearly two and three times as fast, respectively, as the negro population.

The status of the colored farming population of Alabama has been materially improved since emancipation, and the statistics at present available indicate more rapid progress since 1890 than in any preceding decade.

FARMS CLASSIFIED BY RACE OF FARMER AND BY TENURE.

Tables 6 and 7 present the principal statistics of farms classified by race of farmer and by tenure.

TABLE 6.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY RACE OF FARMER AND BY TENURE, WITH PERCENTAGES.

RACE OF FARMER, AND TENURE.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	223, 220	92.7	20, 685, 427	100.0	\$179, 399, 882	100.0
White farmers.....	129, 187	128.6	15, 965, 260	77.2	132, 481, 529	73.8
Colored farmers ¹	94, 033	50.2	4, 720, 167	22.8	46, 918, 353	26.2
Owners.....	31, 046	148.0	11, 996, 845	58.0	51, 186, 408	50.8
Part owners.....	11, 557	124.0	1, 432, 915	6.9	11, 924, 095	6.7
Owners and tenants.....	869	156.0	135, 590	0.7	1, 098, 297	0.6
Managers.....	874	413.4	861, 201	1.7	4, 733, 717	2.6
Cash tenants.....	74, 330	51.8	4, 073, 671	19.7	43, 201, 226	24.1
Share tenants.....	54, 544	49.2	2, 655, 102	13.0	27, 236, 139	15.2

¹Including 14 Indians.

TABLE 7.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY RACE OF FARMER AND BY TENURE.

RACE OF FARMER, AND TENURE.	AVERAGE VALUES PER FARM OF—					Per cent of gross income on total investment in farm property.
	Farm property, June 1, 1900.				Gross income (products of 1899 not fed to live stock).	
	Land and im- prove- ments (except build- ings).	Build- ings.	Imple- ments and ma- chinery.	Live stock.		
The State.....	\$449	\$154	\$39	\$162	\$364	45.3
White farmers.....	551	219	52	204	421	41.0
Colored farmers ¹	309	65	21	104	286	57.4
Owners.....	582	256	61	226	440	39.2
Part owners.....	559	208	51	214	423	40.9
Owners and tenants.....	663	231	58	277	466	37.8
Managers.....	3, 551	989	242	684	1, 290	28.8
Cash tenants.....	354	83	24	120	323	55.7
Share tenants.....	303	76	20	101	278	55.5

¹Including 14 Indians.

Many of the apparent anomalies shown in these tables are the results of conditions peculiar to cotton-growing districts where, before negro emancipation, cotton was grown on large plantations by slave labor. Immediately after emancipation the slave system gave way to one of hired labor, and this, in turn, was succeeded by a tenant system, under which the former laborers leased and cultivated land under contracts that placed both land and laborer under the supervision of the landlord or of an overseer employed by him. Where this system prevails, the best and most highly improved land of the plantations is leased in small tracts, which appear in census reports as farms of colored tenants. The lands not thus leased, consisting of large unimproved areas and small tracts of improved land, constitute the farms of the plantation owners, as reported by the census. The leased land is the more valuable per acre, has a higher per cent of improved area, and produces crops having a greater value per acre, and representing in value a greater per cent of the capital invested in farm property.

The land in the leading cotton-growing counties, the greater part of which is leased, is much more valuable than the average land in other parts of the state, and yields a greater gross income upon capital invested. Thus in the counties of Pike and Chambers the average gross incomes of farms in 1899 were \$509 and \$469, respectively, while in the counties of Escambia and Winston they were \$261 and \$240, respectively. The average gross income per acre in the former two counties was \$5.84 and \$5.60, and in the latter two, \$2.43 and \$1.48, respectively. The percentage of gross income upon farm investments for the same counties was 62.8 and 50.9, and 30.6 and 45.2, respectively. Most of the colored farmers of Alabama are found in the cotton-growing counties where agricultural conditions are as above described. Negroes constitute 35.4 per cent of the farmers in Pike county and 47.2 per cent in Chambers county, while in Escambia and Winston counties the corresponding percentages are but 19.9 and 0.1, respectively.

These facts must be borne in mind in drawing comparisons between the statistics given in Tables 6 and 7 for farms of white and colored farmers and for those of owners and tenants. The relatively high average gross income shown for farms operated by tenants and for those operated by negroes must not be construed as evidence of superior farm management. It is the natural consequence of the greater fertility and value of the land in those counties in which negroes predominate, and where the contract system of tenure is most common.

FARMS CLASSIFIED BY AREA.

Tables 8 and 9 present the principal statistics for farms classified by area.

TABLE 8.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY AREA, WITH PERCENTAGES.

AREA.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	223,220	92.7	20,685,427	100.0	\$179,399,882	100.0
Under 3 acres	788	1.9	1,482	(1)	442,087	0.2
3 to 9 acres	10,009	6.4	64,183	0.3	2,556,085	1.4
10 to 19 acres	20,866	14.2	297,155	1.4	6,243,039	3.5
20 to 49 acres	80,784	31.9	2,579,379	12.5	35,366,549	19.7
50 to 99 acres	47,745	70.6	3,369,528	16.3	35,702,655	19.9
100 to 174 acres	37,111	182.8	4,963,792	24.0	87,015,707	20.6
175 to 259 acres	12,561	209.9	2,036,784	12.8	18,561,563	10.4
260 to 499 acres	9,682	387.9	3,254,487	15.7	20,942,388	11.7
500 to 999 acres	2,788	648.7	1,808,499	8.7	12,156,274	6.8
1,000 acres and over	956	1,788.8	1,710,138	8.3	10,418,535	5.8

¹Less than one-tenth of 1 per cent.

TABLE 9.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY AREA.

AREA.	AVERAGE VALUES PER FARM OF—					Per cent of gross income on total investment in farm property.
	Farm property, June 1, 1900.					
	Land and improvements (except buildings).	Buildings.	Implements and machinery.	Live stock.	Gross income (products of 1899 not fed to live stock).	
The State.....	\$449	\$154	\$39	\$162	\$304	45.3
Under 3 acres	172	283	18	108	221	88.8
3 to 9 acres	107	97	10	41	92	36.2
10 to 19 acres	146	72	13	68	153	51.1
20 to 49 acres	238	77	21	102	267	60.9
50 to 99 acres	415	133	37	168	408	54.6
100 to 174 acres	543	196	51	207	445	44.6
175 to 259 acres	819	295	76	288	599	38.5
260 to 499 acres	1,247	439	107	381	712	32.8
500 to 999 acres	2,683	825	200	632	1,158	26.6
1,000 acres and over	7,269	1,798	457	1,369	2,316	21.3

The group of medium-sized farms, containing from 100 to 174 acres each, comprises nearly one-fourth of the total farm acreage and more than one-fifth of the total value of farm property.

For the group of farms containing less than 3 acres each, the average values given in Table 9 are relatively high, as this group contains most of the florists' establishments of the state, and a number of city dairies. It should be borne in mind that the income from these industries is determined not so much by the acreage of land used, as by the amount of capital invested in buildings and implements and by the amounts expended for labor and fertilizers.

The average gross incomes per acre for the various groups classified by area are as follows: Farms under 3 acres, \$114.37; 3 to 9 acres, \$14.42; 10 to 19 acres, \$10.75; 20 to 49 acres, \$8.35; 50 to 99 acres, \$5.78; 100 to 174 acres, \$3.83; 175 to 259 acres, \$2.71; 260 to 499 acres, \$2.11; 500 to 999 acres, \$1.79; 1,000 acres and over, \$1.29.

FARMS CLASSIFIED BY PRINCIPAL SOURCE OF INCOME.

Tables 10 and 11 present the leading features of the sta-

tistics relating to farms classified by principal source of income. If the value of the hay and grain raised on any farm exceeds that of any other crop and constitutes at least 40 per cent of the total value of products not fed to live stock, the farm is classified as a hay and grain farm. If vegetables are the leading crop, constituting 40 per cent of the value of the products, it is a vegetable farm. The farms of the other groups are classified in accordance with the same general principle. "Miscellaneous" farms are those whose operators do not derive their principal income from any one class of farm products. Farms for which no income was reported are classified according to the agricultural operations upon other farms in the same locality.

TABLE 10.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY PRINCIPAL SOURCE OF INCOME, WITH PERCENTAGES.

PRINCIPAL SOURCE OF INCOME.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	223,220	92.7	20,685,427	100.0	\$179,399,882	100.0
Hay and grain	10,801	96.9	1,046,481	5.1	11,236,960	6.3
Vegetables	2,483	64.3	159,588	0.8	2,615,362	1.5
Fruit	401	90.7	36,369	0.2	531,282	0.3
Live stock	12,825	181.9	1,729,768	8.4	14,652,615	8.2
Dairy produce.....	7,504	84.8	636,323	3.1	7,116,131	4.0
Tobacco.....	67	141.5	9,480	(1)	83,742	(1)
Cotton.....	141,965	78.7	11,174,784	54.0	98,856,769	55.1
Rice.....	33	122.9	4,057	(1)	29,576	(1)
Sugar.....	187	75.4	10,329	(1)	89,073	(1)
Flowers and plants.....	23	4.2	96	(1)	140,877	0.1
Nursery products.....	22	242.4	5,333	(1)	189,387	0.1
Miscellaneous.....	46,959	125.1	5,872,819	28.4	43,858,108	24.4

¹Less than one-tenth of 1 per cent.

TABLE 11.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY PRINCIPAL SOURCE OF INCOME.

PRINCIPAL SOURCE OF INCOME.	AVERAGE VALUES PER FARM OF—					Per cent of gross income on total investment in farm property.
	Farm property, June 1, 1900.					
	Land and improvements (except buildings).	Buildings.	Implements and machinery.	Live stock.	Gross income (products of 1899 not fed to live stock).	
The State.....	\$449	\$154	\$39	\$162	\$304	45.3
Hay and grain	659	182	45	154	287	27.6
Vegetables	571	295	48	139	298	27.8
Fruit	844	321	65	85	817	23.9
Live stock	608	245	53	242	266	23.3
Dairy produce.....	443	256	40	209	244	25.8
Tobacco.....	717	291	65	177	679	54.3
Cotton.....	400	120	33	143	381	54.8
Rice.....	481	151	56	202	433	48.3
Sugar.....	312	145	32	161	249	38.4
Flowers and plants.....	2,936	3,087	62	40	1,875	30.6
Nursery products.....	5,674	2,476	284	174	6,008	69.8
Miscellaneous.....	492	199	49	194	377	40.3

For the several classes of farms the average values per acre of products not fed to live stock are as follows: For farms whose operators derive their principal income from flowers and plants, \$449.30; nursery products, \$24.78; cotton, \$4.84; tobacco, \$4.79; vegetables, \$4.55; rice,

\$3.52; fruit, \$3.50; sugar, \$3.31; miscellaneous, \$3.01; hay and grain, \$2.96; dairy produce, \$2.88; and live stock, \$1.97. In computing these averages the total area of the farms of each group is used, and not the acreage devoted to the crop from which the principal income is derived.

The wide variations shown in the averages and percentages of gross income are largely due to the fact that in computing gross income no deduction is made for expenditures. For florists' establishments, nurseries, and market gardens the average expenditure for such items as labor and fertilizers represents a far larger percentage of the gross income than in the case of "hay and grain," "live-stock," or "miscellaneous" farms. Were it possible to present the average net incomes, the variations shown would be comparatively slight.

FARMS CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK:

Tables 12 and 13 present data relating to farms classified by the reported value of products not fed to live stock.

TABLE 12.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK, WITH PERCENTAGES.

VALUE OF PRODUCTS NOT FED TO LIVE STOCK.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	223, 220	92. 7	20, 685, 427	100. 0	\$179, 399, 882	100. 0
\$0.....	2, 284	56. 2	128, 376	0. 6	970, 150	0. 5
\$1 to \$49.....	9, 127	34. 1	311, 805	1. 5	2, 473, 660	1. 4
\$50 to \$99.....	15, 885	39. 4	625, 965	3. 0	4, 869, 100	2. 7
\$100 to \$249.....	72, 681	57. 5	4, 178, 299	20. 2	38, 110, 980	18. 5
\$250 to \$499.....	82, 080	90. 1	7, 889, 567	38. 7	60, 361, 222	33. 7
\$500 to \$999.....	34, 245	153. 1	5, 413, 572	26. 2	47, 898, 590	26. 7
\$1, 000 to \$2, 499.....	6, 265	327. 1	2, 049, 522	9. 9	21, 592, 590	12. 0
\$2, 500 and over.....	760	784. 7	588, 520	2. 9	8, 123, 350	4. 5

TABLE 13.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK.

VALUE OF PRODUCTS NOT FED TO LIVE STOCK.	AVERAGE VALUES PER FARM OF—					Gross income (products of 1899 not fed to live stock).	Per cent of gross income on total investment in farm property.
	Farm property, June 1, 1900.						
	Land and improvements (except buildings).	Buildings.	Implements and machinery.	Live stock.			
The State.....	\$149	\$154	\$39	\$162	\$364	45. 8	
\$0.....	293	68	15	54			
\$1 to \$49.....	161	58	9	43	29	10. 6	
\$50 to \$99.....	174	67	11	54	75	24. 3	
\$100 to \$249.....	252	88	20	96	188	40. 7	
\$250 to \$499.....	407	134	35	160	365	49. 7	
\$500 to \$999.....	791	254	71	233	688	49. 2	
\$1, 000 to \$2, 499.....	1, 805	794	139	599	1, 445	41. 9	
\$2, 500 and over.....	6, 363	2, 301	616	1, 551	5, 021	46. 4	

Of the 2,284 farms reporting no income for 1899, 438 were operated by their owners, 22 by managers, 899 by cash tenants, and 925 by share tenants. The comparatively high average values of the land and buildings of these farms indicate that a considerable number of them are highly improved country places held for pleasure and not for profit. In the case of many tenant-operated farms, the absence of any reported income is due to the fact that such farms are constantly changing hands, and the farmers in charge, June 1, 1900, were frequently unable to give definite information concerning the products of the preceding year. To this extent the reports fall short of giving a complete exhibit of farm income in 1899.

LIVE STOCK.

At the request of the various live-stock associations of the country, a new classification of domestic animals was adopted for the census of 1900. The age grouping for neat cattle was determined by their present and prospective relations to the dairy industry and the supply of meat products. Horses and mules are classified by age, and neat cattle and sheep by age and sex. The new classification permits a very close comparison with the figures published in previous census reports.

Table 14 presents a summary of live-stock statistics.

TABLE 14.—NUMBER OF DOMESTIC ANIMALS, FOWLS, AND BEES ON FARMS, JUNE 1, 1900, WITH TOTAL AND AVERAGE VALUES, AND NUMBER OF DOMESTIC ANIMALS NOT ON FARMS.

LIVE STOCK.	Age in years.	ON FARMS.			NOT ON FARMS.
		Number.	Value.	Average value.	Number.
Calves.....	Under 1.....	213, 397	\$826, 805	\$3. 87	12, 464
Steers.....	1 and under 2.....	52, 023	355, 759	6. 84	2, 680
Steers.....	2 and under 3.....	37, 001	361, 154	9. 76	2, 250
Steers.....	3 and over.....	40, 436	831, 167	20. 56	4, 409
Bulls.....	1 and over.....	18, 027	205, 161	11. 38	567
Heifers.....	1 and under 2.....	83, 027	708, 459	8. 47	2, 918
Cows kept for milk.....	2 and over.....	279, 263	5, 512, 940	19. 74	22, 866
Cows and heifers not kept for milk.....	2 and over.....	76, 560	997, 111	13. 02	1, 587
Colts.....	Under 1.....	8, 724	203, 492	23. 33	273
Horses.....	1 and under 2.....	7, 846	299, 118	38. 12	288
Horses.....	2 and over.....	136, 073	7, 408, 511	54. 41	18, 114
Mule colts.....	Under 1.....	4, 695	134, 232	28. 59	57
Mules.....	1 and under 2.....	7, 853	390, 664	49. 75	166
Mules.....	2 and over.....	179, 522	12, 579, 746	70. 07	7, 149
Asses and burros.....	All ages.....	1, 819	134, 826	74. 12	200
Lambs.....	Under 1.....	87, 765	104, 153	1. 19	1, 266
Sheep (ewes).....	1 and over.....	157, 830	259, 428	1. 64	3, 381
Sheep (rams and wethers).....	1 and over.....	71, 468	124, 718	1. 75	1, 737
Swine.....	All ages.....	1, 423, 329	2, 887, 230	2. 03	51, 018
Goats.....	All ages.....	117, 413	94, 258	0. 80	4, 762
Fowls: 1.....					
Chickens 2.....		4, 737, 606			
Turkeys.....		123, 326			
Geese.....		243, 657	1, 400, 269		
Ducks.....		75, 947			
Bees (swarms of).....		205, 369	287, 598	1. 40	
Value of all live stock.....			36, 105, 799		

¹ The number reported is of fowls over 3 months old. The value is of all, old and young.

² Including Guinea fowls.

The total value of all live stock on farms, June 1, 1900, was \$36,105,799, of which 36.7 per cent represents the value of mules, asses, and burros; 21.9 per cent, that of horses; 15.3 per cent, that of dairy cows; 11.8 per cent,

that of other neat cattle; 8.0 per cent, that of swine; 3.9 per cent, that of poultry; and 2.4 per cent, that of all other live stock.

No reports were secured of the value of live stock not on farms, but it is probable that such animals have higher average values than those on farms. Allowing the same averages, however, the total value of the domestic animals not on farms would be \$2,327,830. Exclusive of poultry and bees not on farms, the total value of live stock in the state is approximately \$88,433,600.

CHANGES IN LIVE STOCK KEPT ON FARMS.

The following table shows the changes since 1850 in the number of the most important domestic animals.

TABLE 15.—NUMBER OF SPECIFIED DOMESTIC ANIMALS ON FARMS: 1850 TO 1900.

YEAR.	Dairy cows.	Other neat cattle.	Horses.	Mules and asses.	Sheep. ¹	Swine.
1800.....	279, 263	520, 471	152, 643	193, 889	229, 298	1, 423, 329
1830.....	292, 038	583, 888	121, 207	134, 800	386, 380	1, 421, 884
1850.....	271, 443	479, 747	113, 950	121, 081	347, 533	1, 252, 462
1870.....	170, 640	316, 523	80, 770	76, 075	241, 984	719, 757
1890.....	230, 537	542, 859	127, 053	111, 637	370, 156	1, 748, 321
1850.....	227, 791	500, 224	128, 001	59, 395	371, 880	1, 904, 540

¹ Lambs not included.

A comparison between the numbers of the several classes of domestic animals reported in 1890 and in 1900 indicates that an important change has taken place in the general character of the live-stock industry in Alabama. There has been a small decrease in the number of dairy cows, and a very marked decrease in the numbers of other neat cattle and of sheep. Horses, mules, and asses, on the other hand, show great increases, and swine have increased to some extent.

Although the table shows a decrease since 1890 of 4.4 per cent in the number of dairy cows, it is very probable that this decrease is more apparent than real, as the production of milk has increased nearly 73 per cent. It is considered probable that many of the 76,560 "cows and heifers not kept for milk" (see Table 14) were in reality milch cows, dry at the time of enumeration.

The actual decrease in the number of "other neat cattle" is doubtless even greater than that shown in the table. In 1900 the figures for "other neat cattle" include 213,397 calves, while it is not certain that calves were included under this head in previous census reports. If not, there has been, in the last decade, a decrease of nearly one-half in the number of cattle over one year of age raised for meat products. Owing to the rapid settlement of the state, the steady appreciation in the value of farm lands, and the increase in the acreage devoted to crops, the Alabama farmer has partially abandoned stock raising as a source of revenue. It must be borne in mind, however, that the comparatively high market prices of beef and mutton which prevailed for a number of months prior to the date of enumeration, led many farmers to reduce their herds and flocks to an unusual extent.

The rapid development of agriculture since the close of the Civil War is also shown in the steadily increasing

number of horses, mules, and asses, their number having doubled since 1870. In the last decade the number of horses increased 25.9 per cent, and the number of mules and asses, 43.8 per cent.

The number of sheep increased steadily between 1870 and 1890, but in the last ten years decreased 40.7 per cent. Swine show a steady increase in number in the last thirty years, but for the decade from 1890 to 1900, the rate of gain was only 0.1 per cent.

ANIMAL PRODUCTS.

Table 16 is a summarized exhibit of the animal products of agriculture.

TABLE 16.—QUANTITIES AND VALUES OF SPECIFIED ANIMAL PRODUCTS, AND VALUES OF POULTRY RAISED, ANIMALS SOLD, AND ANIMALS SLAUGHTERED ON FARMS, IN 1899.

PRODUCTS.	Unit of measure.	Quantity.	Value.
Wool.....	Pounds.....	744, 274	\$150, 948
Mohair and goat hair.....	Pounds.....	469	140
Milk.....	Gallons.....	195, 882, 103	6, 610, 967
Butter.....	Pounds.....	19, 121, 964	
Cheese.....	Pounds.....	36, 374	1, 825, 978
Eggs.....	Dozens.....	13, 778, 960	
Poultry.....			2, 263, 346
Honey.....	Pounds.....	1, 930, 410	197, 232
Wax.....	Pounds.....	162, 020	
Animals sold.....			1, 958, 640
Animals slaughtered.....			5, 139, 443
Total.....			18, 196, 689

¹ Includes all milk produced.

The value of animal products in 1899 was \$18,196,689, or 22.4 per cent of the gross farm income. Of the above amount, 39.3 per cent represents the aggregate value of animals sold alive and of animals slaughtered on farms; 36.3 per cent, that of dairy products; 22.5 per cent, that of poultry and eggs; and 1.9 per cent, that of wool, mohair, honey, and wax.

The production of milk in 1899 was 40,373,416 gallons greater than in 1889, an increase of 72.7 per cent. The quantity of cheese made on farms, though commercially of little importance, increased nearly fivefold, while that of butter increased 31.4 per cent.

Of the \$6,610,967 given in Table 16 as the value of all dairy products in 1899, \$5,690,113, or 86.1 per cent, represents the value of such products consumed on farms, and \$920,854, or 13.9 per cent, the amount realized from sales. Of the latter sum, \$389,605 was derived from the sale of 3,087,433 gallons of milk; \$515,466, from 2,780,075 pounds of butter; \$14,802, from 27,133 gallons of cream; and \$981, from 13,481 pounds of cheese.

POULTRY AND EGGS.

Of the 223,220 farmers in the state, 191,383, or 85.7 per cent, reported poultry in 1900.

The total value of the poultry products of 1899 was \$4,089,324, of which 55.3 per cent represents the value of poultry raised, and 44.7 per cent, the value of eggs. The average returns per farm were \$11.83 from poultry and \$9.54 from eggs. In 1879 the production of eggs was 6,761,646 dozens; in 1889, 10,823,526 dozens; and in

1899, 18,778,960 dozens, showing an increase for the last decade of 73.5 per cent.

WOOL.

Although 40.7 per cent fewer sheep are reported in 1900 than in 1890, a decrease of but 3.2 per cent is shown in the production of wool. This is believed to be the result of an improvement in the grade of sheep kept, as the average weight of fleeces has advanced from 2.2 pounds in 1890 to 2.5 pounds in 1900.

HONEY AND WAX.

In 1900, 32,100 farmers reported 205,369 swarms of bees. The quantity of honey reported for 1899 was 5.8 per cent greater than that reported for 1889; and the quantity of wax was 135.2 per cent greater.

HORSES, MULES, AND DAIRY COWS ON SPECIFIED CLASSES OF FARMS.

Table 17 presents, for the leading groups of farms, the number of farms reporting horses, mules, and dairy cows, and the average number of these animals per farm. In computing the averages presented, only those farms which report the kind of live stock under consideration are included.

TABLE 17.—HORSES, MULES, AND DAIRY COWS ON SPECIFIED CLASSES OF FARMS, JUNE 1, 1900.

CLASSES.	HORSES.		MULES.		DAIRY COWS.	
	Farms reporting.	Average per farm.	Farms reporting.	Average per farm.	Farms reporting.	Average per farm.
Total	98,680	1.5	120,215	1.6	151,427	1.8
White farmers	69,213	1.6	70,168	1.7	101,744	2.0
Colored farmers	29,467	1.3	50,047	1.4	49,683	1.6
Owners ¹	54,676	1.7	53,161	1.8	79,928	2.1
Managers	527	3.4	551	5.9	451	4.3
Cash tenants	26,588	1.4	40,077	1.5	42,959	1.6
Share tenants	16,889	1.3	26,426	1.3	30,895	1.4
Under 20 acres	8,571	1.2	6,242	1.1	13,321	1.5
20 to 99 acres	52,276	1.3	70,761	1.3	85,409	1.6
100 to 174 acres	20,479	1.6	28,822	1.6	31,857	1.8
175 to 259 acres	7,665	1.9	9,099	2.1	11,421	2.3
260 acres and over	9,689	2.5	10,291	3.2	12,419	3.4
Hay and grain	4,498	1.7	4,422	1.9	5,854	1.7
Vegetable	1,329	1.5	668	1.5	1,199	2.1
Fruit	17	1.8	109	1.6	176	1.8
Live stock	9,716	1.8	3,099	2.3	9,400	2.3
Dairy	4,162	1.7	2,459	1.6	7,504	3.1
Cotton	54,536	1.4	35,298	1.5	80,006	1.6
Sugar	63	1.7	52	1.5	76	2.1
Miscellaneous ²	24,359	1.7	24,108	1.7	40,612	1.9

¹Including "part owners" and "owners and tenants."

²Including florists' establishments, nurseries, tobacco farms, and rice farms.

In Alabama, as in all states where cotton is a staple crop and much of the farm labor is performed by negroes, large numbers of mules are used as work animals. For most classes of farms the average number of mules exceeds that of horses. If the numbers of horses and mules be combined, the average number of work animals per farm compares favorably with the corresponding figures for the intensively cultivated farms of New England.

CROPS.

The following table gives the statistics of the principal crops of 1899.

TABLE 18.—ACREAGES, QUANTITIES, AND VALUES OF THE PRINCIPAL FARM CROPS IN 1899.

CROPS.	Acres.	Unit of measure.	Quantity.	Value.
Corn	2,743,360	Bushels	35,053,047	\$17,082,751
Wheat	128,397	Bushels	628,775	502,240
Oats	216,878	Bushels	1,882,030	797,684
Barley	273	Bushels	2,400	1,582
Rye	1,708	Bushels	11,123	9,075
Buckwheat	10	Bushels	76	50
Flaxseed	1	Bushels	4	1
Grass seed		Bushels	873	1,016
Clover seed		Bushels	3	11
Kafir corn	4	Bushels	90	45
Hay and forage	85,459	Tons	172,908	1,707,688
Tobacco	1,141	Pounds	311,950	55,581
Rice	2,329	Pounds	928,946	30,891
Cotton	3,292,135	Bales	1,106,840	87,004,398
Cottonseed		Tons	584,413	5,065,079
Dry beans	1,801	Bushels	17,865	15,507
Dry pease	91,126	Bushels	665,383	536,793
Potatoes	9,505	Bushels	587,711	524,623
Sweet potatoes	50,865	Bushels	3,457,386	1,687,089
Onions	259	Bushels	28,914	28,848
Miscellaneous vegetables	55,563			2,613,713
Sugar cane	32,871	Tons	12,751	10,513
Sorghum cane kept for seed		Tons	131,484	454,664
Sugar		Pounds	13,765	612
Molasses		Gallons	2,672,438	1,003,211
Sorghum cane	14,831	Tons	13,145	8,350
Sorghum sirup		Gallons	1,168,868	362,397
Small fruits	303			54,037
Grapes	22,559	Centals	42,576	884,861
Orchard fruits	275,016			4,478,574
Tropical fruits				6,013
Nuts				6,515
Forest products				2,494,452
Flowers and plants	53			43,950
Seeds	8			1,510
Nursery products	1,038			131,132
Hops	1	Pounds	440	32
Broom corn	152	Pounds	56,290	2,452
Peanuts	79,011	Bushels	1,021,708	583,223
Miscellaneous				975
Total	6,792,746			73,190,720

¹Sold as cane.

²Estimated from number of vines or trees.

³Including value of raisins, wine, etc.

⁴Including value of cider and vinegar.

Of the total value of crops in 1899, cotton contributed 57.5 per cent; corn, 23.3 per cent; other cereals, 1.8 per cent; vegetables, including potatoes, sweet potatoes, and onions, 6.4 per cent; forest products, 3.4 per cent; hay and forage, 2.3 per cent; sugar cane and sorghum cane and their products, 2.5 per cent; fruits and nuts, 0.9 per cent; and all other products, 1.9 per cent.

The acreage devoted to corn was 40.4 per cent of the total area in crops, but yielded only 23.3 per cent of the total receipts. Cotton occupied 47.1 per cent of the total acreage and yielded 57.5 per cent of the total receipts.

The average values per acre of the various crops were as follows: Flowers and plants, \$829.25; nursery products, \$126.33; onions, \$111.38; potatoes, \$34.15; sweet potatoes, \$33.17; tobacco, \$48.71; cotton, including seed, \$13.14; rice, \$13.26; peanuts, \$7.38; orchard fruits, \$6.35; cereals, \$5.96; and dry pease and dry beans, \$5.94. The crops yielding the highest returns were grown upon very highly improved land. Their production required a large amount of labor and large expenditures for fertilizers.

CEREALS.

Table 19 is an exhibit of the changes in cereal production since 1849.

TABLE 19.—ACREAGE AND PRODUCTION OF CEREALS: 1849 TO 1899.

PART 1.—ACREAGE.

YEAR. ¹	Barley.	Buck-wheat.	Corn.	Oats.	Rye.	Wheat.
1899.....	273	10	2,743,360	216,873	1,708	123,397
1889.....	200	352	2,127,302	344,788	2,190	39,641
1879.....	511	42	2,055,929	324,628	5,764	264,971

¹No statistics of acreage were secured prior to 1879.

PART 2.—BUSHELS PRODUCED.

1899.....	2,400	76	35,053,047	1,332,060	11,123	628,775
1889.....	1,996	4,022	30,072,161	3,230,455	14,618	208,591
1879.....	5,281	363	25,451,278	3,089,639	28,402	1,529,657
1869.....	5,174	144	16,977,948	770,866	18,977	1,055,068
1859.....	15,135	1,347	33,226,232	682,179	72,457	1,218,444
1849.....	3,958	348	28,754,048	2,965,696	17,261	294,044

In 1879 the total area devoted to cereals was 2,651,845 acres; in 1889, 2,514,473 acres; and in 1899, 3,086,121 acres. The gain in the last ten years amounts to 22.7 per cent. The value of all cereals grown represents 20.1 per cent of the total value of farm products.

Corn is by far the most important cereal. In 1899 it was reported by 205,273 farmers, or 92.0 per cent of the total number in the state, and occupied 88.9 per cent of the total area under cereals. The acreage increased 29.0 per cent in the last decade.

Barley and buckwheat are of comparatively little importance. The acreage devoted to oats in 1899 was 37.1 per cent less than that reported ten years before. The decrease shown is believed to be due principally to an unfavorable season in 1899, although the introduction of new forage crops has doubtless led some farmers to abandon the growing of oats for hay. Rye has decreased steadily in both acreage and production since 1879.

The acreage and production of wheat have varied widely from decade to decade, but in 1899 both were more than three times as great as in 1889. Seasonal variations doubtless account in large degree for the great fluctuations shown. The greatest acreage in wheat is in the north-eastern counties, Madison, Jackson, Randolph, and Cherokee, each of which reported over 6,000 acres.

The acreage given for cereals does not include 14,723 acres of grain cut green for hay, nor 15,708 acres devoted to corn, nonsaccharine sorghum, and similar crops, grown for forage or ensilage.

RICE.

The area devoted to rice in 1899 was 2,349 acres, an increase of 187.5 per cent over the acreage reported ten years before. While about two-thirds of the counties of the state report the cultivation of rice, over one-half of the product of 1899 was reported by five counties in the extreme southern part of the state: Escambia, Henry, Baldwin, Geneva, and Monroe, ranking in the order named.

COTTON.

The following table is an exhibit of the changes in cotton production since 1849.

TABLE 20.—ACREAGE AND PRODUCTION OF COTTON: 1849 TO 1899.

YEAR.	ACREAGE. ¹		PRODUCTION.		
	Total.	Per cent of increase.	Commercial bales.	Pounds.	Per cent of increase.
1899.....	3,202,135	16.0	1,106,340	546,848,659	25.3
1889.....	2,761,165	18.5	915,210	486,555,170	37.7
1879.....	2,330,086		699,654	316,913,262	70.0
1869.....			429,482	186,395,188	57.7
1859.....			989,955	440,529,975	95.1
1849.....			564,429	225,771,600	

¹No statistics of acreage were secured prior to 1879.

²Decrease.

In 1899, 192,388 farmers, or 86.2 per cent of the total number, reported the production of cotton. It was grown in every county in the state, but in the extreme north-western and southwestern counties the acreages reported were relatively small. For the state the average acreage devoted to cotton was 62.1 acres per square mile of land surface, and 16.6 acres per farm reporting. The five leading cotton-growing counties, Dallas, Montgomery, Lowndes, Marengo, and Bullock, each had over one hundred thousand acres and reported an average of approximately one hundred and fifty-three acres per square mile, or over one-half of their total improved farm land. In 1879, 36.5 per cent of the improved farm land of the state was devoted to cotton; in 1889, 35.9 per cent; and in 1899, 37.0 per cent. The acreage increased 16.0 per cent in the last decade.

The crop of 1899 was the largest ever reported in a census year, being 25.3 per cent greater than the crop grown ten years before. For the state the average yield per square mile of land surface was 21.5 commercial bales, while in Lowndes, Chambers, Bullock, and Pike counties the average was over fifty bales.

SUGAR CANE AND SORGHUM CANE.

Table 21 presents a comparative exhibit of the acreage of sugar cane, and the production of sugar and sirup, 1849 to 1899.

TABLE 21.—ACREAGE OF SUGAR CANE, AND PRODUCTION OF SUGAR AND SIRUP: 1849 TO 1899.

YEAR. ¹	Acreage in cane.	SUGAR.		SIRUP.	
		Production in pounds.	Average yield per acre in pounds.	Production in gallons.	Average yield per acre in gallons.
1899.....	32,871	13,765	0.42	2,672,433	81.80
1889.....	19,415	390,835	20.13	2,333,231	120.18
1879.....	6,627	112,800	17.02	795,199	119.99
1869.....		37,200		166,009	
1859.....		210,000		85,115	
1849.....		9,890,400			

¹No statistics of acreage were secured prior to 1879.

As West Indian or ribbon cane and sorghum cane are both grown in Alabama, considerable difficulty was experienced in distinguishing between the reports of the two kinds of sirup. This difficulty was greatly enhanced by the effects of the severe frosts of February, 1899, which extended over the entire sugar-cane belt and destroyed

nearly sixty per cent of the crop. As a result of this frost, the yield of sirup per acre of sugar cane was reduced to approximately that of sorghum cane, while normally it is about double.

Most of the ribbon cane of Alabama is grown south of the thirty-second degree of latitude, and below this line very little sorghum cane is grown for sirup, although considerable quantities are raised for forage. Between the thirty-second and thirty-fourth degrees both ribbon cane and sorghum cane are grown for sirup, and it is in this district that the greatest difficulty has arisen in distinguishing between the products. North of the thirty-fourth parallel practically no ribbon cane is cultivated, as frost generally prevents the crop from maturing.

The manufacture of sirup in Alabama is carried on exclusively by the "open-kettle" process, which produces a very fine quality of sirup, but a low grade of sugar. As a result, the amount of sugar manufactured is comparatively insignificant, while the sirup has come to be of great importance as an article of commerce, the area devoted to ribbon cane in 1899 exceeding that of 1889 by nearly fourteen thousand acres.

The acreage of sorghum cane grown in 1899 was considerably less than that reported ten years before. The average yield per acre, however, was 78.8 gallons, while in 1889 it was but 58.6 gallons. The total value of the sorghum sirup made in 1899 was \$362,397.

HAY AND FORAGE.

In 1900, 68,661 farmers, or 80.8 per cent of the total number, reported hay or forage crops. Exclusive of corn stalks and corn strippings, the average yield per acre was 1.2 tons. The acreage in hay and forage in 1899 was more than twice as great as that of ten years before.

In 1899 the acreages and yields of the various kinds of hay and forage were as follows: Wild, salt, and prairie grasses, 3,914 acres and 4,042 tons; millet and Hungarian grasses, 8,364 acres and 10,442 tons; alfalfa or lucern, 272 acres and 343 tons; clover, 1,592 acres and 1,724 tons; other tame and cultivated grasses, 40,880 acres and 46,383 tons; grains cut green for hay, 14,723 acres and 17,104 tons; forage crops, 15,708 acres and 20,023 tons; corn stalks and corn strippings, 469,738 acres and 72,847 tons.

In Table 18 the production of corn stalks and corn strippings is included, but not the acreage, as the forage secured was only an incidental product of the land on which it was grown.

TOBACCO.

The present census shows that in 1899 tobacco was grown by 5,287 farmers, who reported 1,141 acres and a yield of 311,950 pounds; a gain in ten years of 68.0 per cent in acreage, and 92.1 per cent in production. The greatest production ever reported was in 1879, when 2,197 acres yielded 452,426 pounds. The average yield per acre in 1889 was 239 pounds, while in 1899 it was 273 pounds. The total value of the crop in the latter year was \$55,581, an average of \$10.51 for each farm reporting, and of \$48.71 per acre.

ORCHARD FRUITS.

The changes in orchard fruits since 1890 are shown in the following table.

TABLE 22.—ORCHARD TREES AND FRUITS: 1890 AND 1900.

FRUITS.	NUMBER OF TREES.		BUSHELS OF FRUIT.	
	1900.	1890.	1899.	1889.
Apples	2,015,711	780,657	719,175	1,288,734
Apricots	3,541	1,326	115	611
Cherries	41,849	7,204	1,159	1,862
Peaches	2,690,151	1,280,842	184,643	2,481,203
Pears	208,613	80,993	22,656	22,902
Plums and prunes	400,449	144,622	11,876	40,451

Of the 5,387,813 fruit trees reported in 1900, 49.9 per cent were peach trees; 37.4 per cent, apple trees; 7.4 per cent, plum and prune trees; 3.9 per cent, pear trees; and 1.4 per cent, apricot, cherry, and unclassified fruit trees.

Apple trees were reported in all parts of the state, but in the greatest numbers in the northeastern counties. The number reported in 1900 was over two and one-half times as great as in 1890. Peach trees, which more than doubled in number in the last decade, are also generally distributed over the state, the southwestern county of Washington reporting the largest number. A comparison by counties shows a rapid development of fruit growing in the southern part of the state in the last decade.

The quantity of fruit produced in any given year is determined largely by the nature of the season. Comparisons between the crop of 1889 and that of 1899 have little significance, because in the latter year there was an almost complete failure of all fruits.

In addition to the number of trees, given in Table 22, unclassified fruit trees to the number of 26,493 were reported, with a yield of 8,212 bushels of fruit. The value of orchard products, given in Table 18, includes the value of 1,027 barrels of cider, 765 barrels of vinegar, and 61,170 pounds of dried and evaporated fruits.

SMALL FRUITS.

Of the 903 acres devoted to small fruits, 472 acres, or more than half, were reported by Barbour, Butler, Conecuh, Cullman, and Mobile counties, all of which, except Cullman, are situated in the southern part of the state. Counties of the cotton belt generally report small acreages. Strawberries occupied 593 acres, or 65.7 per cent of the total area, and yielded 804,480 quarts. The acreage and production of other berries were as follows: Blackberries and dewberries, 216 acres and 98,500 quarts; raspberries and Logan berries, 24 acres and 14,390 quarts; currants, 6 acres and 2,060 quarts; gooseberries, 4 acres and 1,890 quarts; and other small fruits, 60 acres and 32,250 quarts. These small fruits were grown by 2,313 farmers who derived therefrom an average of \$23.39 per farm.

The tropical fruits reported in Table 18 consisted almost entirely of figs. Grapes were grown in 1899 by 18,601 farmers, who obtained 42,576 centals of fruit from 1,527,483 vines. The value of the grapes, including the value of 32,666 gallons of wine made on farms, was \$64,861.

VEGETABLES.

The total value of vegetables grown in 1899, including potatoes, sweet potatoes, and onions, was \$4,654,233, of which 36.2 per cent represents the value of sweet potatoes; 7.0 per cent, that of potatoes; 0.6 per cent, that of onions; and 56.2 per cent, that of miscellaneous vegetables.

Sweet potatoes were grown in 1899 by 87,184 farmers, or 39.0 per cent of the total number in the state. The area devoted to this crop in 1889 was 56,650 acres, and in 1899, 50,865 acres, a loss of 10.2 per cent. They are grown most extensively in the counties of the cotton belt.

In the growing of miscellaneous vegetables, 55,563 acres were used. The products of 45,543 acres of this area were not reported in detail. Of the remaining 10,020 acres, 7,142 acres were devoted to watermelons; 1,258 acres, to cabbages; 631 acres, to muskmelons; 271 acres, to tomatoes; 194 acres, to sweet corn; 185 acres, to beans; 160 acres, to cucumbers; and 179 acres, to other vegetables.

PEANUTS.

The growing of peanuts is rapidly becoming an important branch of agriculture in Alabama. In 1899 the area devoted to their production by the 23,689 farmers reporting this crop was 79,011 acres, or more than three times the acreage grown in 1889. Over one-half of the total acreage was reported by the extreme southeastern counties of Coffee, Dale, Geneva, Henry, and Pike. The total value of the crop was \$583,223.

FLORICULTURE.

In 1900, 45 farms reported florists' products valued at \$43,950. Omitting from consideration the 22 farms on which flowers were raised incidentally only, there were 23 commercial florists' establishments in the state. They reported products valued at \$43,133, comprising flowers and foliage plants valued at \$39,328, and other products worth \$3,805. The land and buildings of these florists were valued at \$138,527, implements at \$1,430, and live stock at \$920. The fertilizers used cost \$1,370, and the total expenditure for labor amounted to \$6,770. In growing the products reported, 125,979 square feet of land under glass were used.

NURSERIES.

Nursery products valued at \$131,132 were reported by

56 farmers. The operators of the 22 commercial nursery establishments in the state reported products valued at \$132,170, comprising nursery stock valued at \$125,717 and other products worth \$6,453. The capital invested in land and buildings was \$179,300; in implements and machinery, \$6,250; and in live stock, \$3,837. The expenditure for fertilizers was \$2,186, and that for labor, \$30,373. These establishments used 5,333 acres of land and their average income per acre was \$24.78.

LABOR AND FERTILIZERS.

The total expenditure for labor on farms in 1899, including the value of board furnished, was \$4,314,460, an average of \$19 per farm. The average was highest on the most intensively cultivated farms, being \$1,381 for nurseries, \$294 for florists' establishments, \$65 for tobacco farms, \$38 for rice farms, \$31 for fruit farms, \$28 for vegetable farms, \$22 for cotton farms, \$16 for hay and grain farms, \$15 for live-stock farms, \$14 for dairy farms, and \$10 for sugar farms. "Managers" expended, on an average, \$218; "owners," \$27; "cash tenants," \$16; and "share tenants," \$8.

Fertilizers purchased in 1899 cost \$2,599,290, an average of \$12 per farm, but an increase since 1890 of only 7.3 per cent. The average expenditure was greatest for nurseries, amounting to \$99. For florists' establishments it was \$60; for vegetable farms, \$32; for tobacco farms, \$29; for rice and sugar farms, \$14; for cotton farms, \$12; for fruit farms, \$8; for live-stock farms, \$7; and for hay and grain and dairy farms, \$6.

IRRIGATION.

Irrigation does not, as yet, occupy a very important place in the agricultural development of Alabama. But with the increase in acreage devoted to the growing of early vegetables for northern markets, its practice will doubtless become more general, as it affords an insurance against the short but destructive periods of drought which frequently occur in the spring. In 1899, 89 acres were irrigated. The products, principally vegetables, were valued at \$10,758, or \$121 per acre. The cost of constructing the wells, pumps, tiling, and ditches now in use is estimated to have been \$5,200.

CENSUS BULLETIN.

No. 156.

WASHINGTON, D. C.

April 14, 1902.

DOMESTIC ANIMALS IN THE UNITED STATES.

Hon. WILLIAM R. MERRIAM,
Director of the Census.

SIR: I have the honor to transmit herewith, for publication in bulletin form, the statistics of domestic animals in the United States, taken in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that—

The schedules relating to agriculture shall comprehend the following topics: Name of occupant of each farm, color of occupant, tenure, acreage, value of farm and improvements, acreage of different products, quantity and value of products, and number and value of live stock. All questions as to quantity and value of crops shall relate to the year ending December thirty-first next preceding the enumeration.

By this section no provision was made for the collection of statistics pertaining to the number and value of live stock not on farms. In response to urgent requests from the various live-stock associations of the country, an act, amendatory to the law relating to the Twelfth Census, was approved February 1, 1900, directing the census authorities to collect statistics relating to live stock upon the unfenced public domain, or ranges, of the West and South, and also of domestic animals not located on farms or ranges. In the second class are included all domestic animals in cities, towns, and villages; those in stock yards; those employed in manufacturing, lumbering, mining, and kindred enterprises; and those used for pleasure or profit by individuals other than farm proprietors.

The statistics of animals of the second class were published in Bulletin No. 17, issued November 23, 1900.

The present bulletin gives the statistics of domestic animals on farms, as authorized by the original act, and also the statistics of domestic animals on the unfenced public domain, or ranges, as provided for in the amendment. It also presents, in a final table, the aggregate number of domestic animals in the United States, comprising all such animals on farms and ranges, and in barns and inclosures elsewhere.

No such complete enumeration of live stock has ever before been authorized by Congress or undertaken by any census. Not only were previous census reports especially deficient with respect to the number of do-

mestic animals on ranges, and in barns and inclosures elsewhere, but the statistics of live stock and of live-stock values were too general to be of practical value to either breeder or shipper. It was largely at the request of the live-stock associations of the country that steps were taken to remedy these defects and to secure statistics of greater practical value to all concerned. With this end in view, a new classification of domestic animals was adopted for the census of 1900, and provision made for the collection of definite statistics of the value of the animals of each class. Under the new classification, neat cattle are grouped by age, in accordance with their present and prospective relations to the dairy industry and the supply of meat products. Horses and mules are classified by age, and neat cattle and sheep by age and sex.

Animals on farms were reported by the enumerators on the regular farm schedule. Those on ranges were reported on specially prepared schedules, which called for additional information. In addition to the regular enumeration, a corps of special agents, under the direction of Mr. Charles F. Martin, made a careful canvass of the range states of the West and South to secure detailed reports and additional data regarding local conditions, to be used as a check against possible omissions and inaccuracies on the part of the enumerators. As a result of these precautions, it is believed that the tables herewith presented furnish a more complete and trustworthy exhibit of the number and value of the domestic animals of the United States than any heretofore published.

The values given for the several classes of animals are the farm values on June 1, 1900. In addition to these values, reports were secured of the amounts received in 1899 from the sale of live animals, and also of the value of animals sold and slaughtered on farms and ranges during that year.

Very respectfully,



Chief Statistician for Agriculture.

DOMESTIC ANIMALS IN THE UNITED STATES.

SCHEDULES AND ENUMERATION.

In the collection of the statistics of live stock, tabulated in the census of agriculture for 1900, three schedules were used. The first of these, known as the general farm schedule (Form 7-281), was used by the enumerators in collecting data from the operators of farms, plantations, and ranges in all parts of the country. The second schedule (Form 7-581) was used by the special agents in recording the statistics of the larger ranches of the great West and Southwest, especially those making use of the range, or public domain, in sparsely settled sections of the country, where they might have been overlooked by the enumerators, or from which imperfect reports were likely to have been obtained. The third schedule (Form 7-340) was used by enumerators in collecting reports of domestic animals not on farms or ranges, especially those found in cities and villages. The first two of these schedules were what are known as individual schedules, one being required for each farm or ranch concerning which information was secured. The third schedule was so arranged that reports of from fifty to one hundred barns and inclosures could be made upon it.

In preparing these schedules, and especially the inquiries thereon relating to domestic animals, it was sought to secure enumeration of all animals in the country and also to avoid duplication. It is believed that these objects have been accomplished in a greater degree than at any preceding census. The use of the individual schedule for farms assisted materially in eliminating duplications made by enumerators and special agents. The new classification of animals adopted aided greatly in securing a complete enumeration, and in removing the uncertainties that have existed in the past concerning census live-stock statistics. The two most important items relating to this subject that were left in doubt in preceding censuses were these:

1. Were the values of poultry and bees included with those of domestic animals in the statements of the value of live stock on farms?

2. Were all or any of the young animals born in the spring of the census year included in the general report made on June 1 of that year, of neat cattle, horses, mules, asses, and sheep?

To remove all uncertainties upon the first of these points, statements were secured for the value of the animals of each class, and these were tabulated separately in the Census Office. The total for each class of domestic animals, as well as the grand total for all, exclusive of the values of poultry and bees, are here

presented. The age and sex classification, it is believed, fully removes all uncertainties of the second kind. With these uncertainties removed, the question arises as to the comparability of the statistics of domestic animals and other live stock on farms, as reported by the Twelfth Census, with similar statistics for preceding census years. That the public may have all data for answering this question which have been available to those in charge of the census, there is presented an exhibit of those parts of the schedules of 1900 and 1890 which call for the number of neat cattle, mules, asses, and sheep. The general agricultural schedules and the special range schedules in 1900 made use of the same inquiries, which were printed in the following form, the number being that of the inquiry on the schedule:

38. Farm animals:

Number and value, June 1, 1900, of all the animals on the farm, whether belonging to the occupant of the farm or to others.

ANIMALS.	Ages in years.	Number.	Value.
Calves	Under 1 .....	.....	\$ .....
Steers	1 and under 2 .....	.....	.....
Steers	2 and under 3 .....	.....	.....
Steers	3 and over .....	.....	.....
Bulls	1 and over .....	.....	.....
Heifers	1 and under 2 .....	.....	.....
Cows kept for milk	2 and over .....	.....	.....
Cows and heifers not kept for milk	2 and over .....	.....	.....
Colts	Under 1 .....	.....	.....
Horses	1 and under 2 .....	.....	.....
Horses	2 and over .....	.....	.....
Mule colts	Under 1 .....	.....	.....
Mules	1 and under 2 .....	.....	.....
Mules	2 and over .....	.....	.....
Asses and burros	All ages .....	.....	.....
Lambs	Under 1 .....	.....	.....
Sheep (ewes)	1 and over .....	.....	.....
Sheep (rams and wethers)	1 and over .....	.....	.....
Swine	All ages .....	.....	.....
Goats	All ages .....	.....	.....
DO NOT WRITE ON THIS LINE			

39. Pure-blooded animals:

The number, June 1, 1900, of all pure-blooded animals, recorded or eligible to record, on the farm. All animals reported under this head should also be reported under 38.

ANIMALS.	Number.	ANIMALS.	Number.
Horses	Sheep .....	.....
Cattle	Swine .....	.....
Angora goats		

The schedules of the Twelfth Census, as shown above, called for reports concerning blooded stock. The returns made were found, upon investigation, to be so imperfect that they have not been tabulated.

The information contained in the Eleventh Census relating to horses, mules, asses, sheep, and neat cattle, was tabulated from replies to inquiries printed in the following form:

HORSES, MULES, AND ASSES.						SHEEP.			
On hand June 1, 1890.			Foaled in 1890.			On hand June 1, 1890.			Lambs dropped in 1890.
Horses.	Mules.	Asses.	Horses.	Mules.	Asses.	Merino "fine" wool (one-half to full-blood).	English breeds, long or medium wool (one-half to full-blood).	All other.	

NEAT CATTLE.						
On hand June 1, 1890.			Quality.			Calves dropped in 1889.
Working oxen.	Milch cows.	Other cattle.	Pure-bred (recorded).	Grade one-half blood or higher.	Common or native (including grades less than half-blood).	

The enumerators were given no instructions with reference to domestic animals, except those embodied in the foregoing forms. It is to be noted that for each of the 5 general classes of animals there was an inquiry for the number of young animals born in 1889, but none with reference to those born in 1890. The question at once arises, Did the enumerators include in their reports for June 1, 1890, any of the colts, lambs, or calves born that year? In the case of sheep the census authorities had a decisive answer in the statistics of wool. The number of fleeces reported corresponded very closely with the total number of sheep reported under the 3 heads given above. The authorities in charge of the Eleventh Census accepted this fact as conclusive evidence and published the number of "sheep," as reported by the enumerators, as the number "exclusive of spring lambs." But judging from the schedules and their instructions, the enumerators had as much reason for omitting colts and calves from their reports of horses, mules, asses, and neat cattle as for omitting lambs from their reports of sheep. Hence the probability that all young animals born in the spring of 1890 were omitted by the enumerators from their reports of these 4 classes of animals in that year. Further, as the figures of that census were made the basis for all subsequent estimates by the Agricultural Department of the number of domestic animals on farms, it is probable that those estimates must be considered as being exclusive of colts, calves, and lambs.

FARMS AND INCLOSURES REPORTING DOMESTIC ANIMALS.

The operators of 5,499,988 of the 5,739,657 farms and ranges for which schedules were received, reported domestic animals. In addition, reports were received of 1,899,118 barns and inclosures, not on farms or ranges, making a total of 7,399,106 separate establishments in connection with which domestic animals were

kept. Of these establishments 5,532,737, or 74.8 per cent, reported neat cattle; 5,905,679, or 79.8 per cent, horses; 1,534,540, or 20.7 per cent, mules; 40,804, or 0.6 per cent, asses and burros; 771,768, or 10.4 per cent, sheep; 4,798,850, or 64.9 per cent, swine; and 99,701, or 1.3 per cent, goats.

Of the total number of farms and ranges reported by the Twelfth Census, 95.8 per cent reported one or more of the general classes of domestic animals, as follows: 4,730,920, or 82.4 per cent, reported neat cattle; 4,532,018, or 79.0 per cent, horses; 1,480,913, or 25.8 per cent, mules; 33,875, or 0.6 per cent, asses and burros; 763,543, or 13.3 per cent, sheep; 4,335,989, or 75.5 per cent, swine; and 77,534, or 1.4 per cent, goats.

NEAT CATTLE.

Neat cattle were reported by the proprietors of 4,730,920 farms and ranges, and 801,817 barns and inclosures not on farms or ranges. The total number reported on hand June 1, 1900, was 69,438,758, of which 67,822,336, or 97.7 per cent, were on farms and ranges, and 1,616,422, or but 2.3 per cent, were in barns and inclosures elsewhere.

Of the neat cattle on farms and ranges, 15,333,099 were calves less than 1 year old; 6,968,188, steers 1 and under 2 years; 5,203,325, steers 2 and under 3 years; 3,086,029, steers over 3 years old; 1,315,963, bulls 1 year old and over; 7,183,916, heifers 1 and under 2 years; 17,139,674, dairy cows 2 years and over; and 11,592,142, other cows.

The Eleventh Census made use of 2 different classifications of neat cattle. One was employed in enumerating the cattle on farms in all states, and on the ranges in Idaho, Oregon, and Washington. The numbers reported under this classification were as follows: Working oxen, 1,117,494; milch cows, 16,511,950; other cattle, 33,734,128; a total of 51,363,572. In addi-

tion, the Eleventh Census reported 14,538,327 calves dropped in 1889.

The second classification was used in the enumeration of animals on ranges in states other than Idaho, Oregon, and Washington. The numbers reported under this classification were as follows: 4-year-olds, 535,869; 3-year-olds, 784,797; 2-year-olds, 999,363; yearlings, 1,209,731; dry cows, 795,572; and "cows and calves," 1,959,888. The total number of neat cattle reported on farms and ranges under the 2 classifications was 57,648,792.

Taking into account what has been stated previously concerning the enumeration of calves in 1890 and in preceding census years, the relative movement in the number of neat cattle on farms and ranges in the last decade may be described by the following three hypothetical propositions:

1. If calves dropped in the spring of 1890 were included by the enumerators in the totals of "other cattle," the number of all neat cattle increased in the succeeding decade from 57,648,792 to 67,822,336, or 17.6 per cent. In the North Atlantic states the number increased from 5,461,724 to 6,339,835, or 16.1 per cent; in the South Atlantic states, from 3,890,107 to 4,431,750, or 13.9 per cent; in the North Central states, from 24,601,433 to 30,621,413, or 24.5 per cent; and in the South Central states, from 14,500,146 to 17,870,663, or 23.2 per cent. In the Western states there was a decrease from 9,195,382 to 8,455,749, a loss of 8.0 per cent.

2. If no appreciable number of neat cattle under 1 year of age were included in 1890 under the head of "other cattle," then the total number of neat cattle decreased in the succeeding decade from 57,648,792 to 52,489,237, or 8.9 per cent. That number decreased in each of the 5 geographical divisions as follows: In the North Atlantic states, from 5,461,724 to 5,081,616, or 7.0 per cent; in the South Atlantic states, from 3,890,107 to 3,490,301, or 10.3 per cent; in the North Central states, from 24,601,433 to 23,309,460, or 5.3 per cent; in the South Central states, from 14,500,146 to 13,823,384, or 4.7 per cent; and in the Western states, from 9,195,382 to 6,699,067, or 27.1 per cent.

3. If, as is most probable, the enumerators of the Eleventh Census reported all calves dropped in 1889 as "other cattle," and thus included many less than 1 year old, but did not include calves dropped in the spring of 1890, there took place in the succeeding decade a slight decrease in the number of neat cattle. The percentage of decrease in any geographical division could not have been as great as the corresponding percentage shown in the last paragraph. For the nation, it must have been less than 9.0 per cent and probably was not more than 7.0 per cent.

This decrease in the total number of neat cattle has not been accompanied by a decrease in the number of dairy cows, and probably not in that of other cows.

The dairy cows of the United States June 1, 1900, numbered 18,112,707. Of this number 17,139,674, or 94.6 per cent, were on farms and ranges, and 973,033, or 5.4 per cent, were in barns and inclosures not on farms. The number on farms and ranges in 1900 exceeded the number of milch cows reported in 1890 by 627,724, or 3.8 per cent. In the North Atlantic states the percentage of excess was 4.3; in the South Atlantic states, 1.0; in the North Central states, 3.0; in the South Central states, 2.4; and in the Western states, 20.2. In all of these geographical divisions in 1890 some cows not kept for milk were reported as milch cows, and it is very probable that in 1900 some dairy cows, dry at the time of enumeration, were reported as "cows not kept for milk." For these reasons it is believed that the actual increase since 1890 in the number of dairy cows is greater than indicated by the foregoing percentages. It is probably not less than 5 or 6 per cent.

There are many facts shown in the 2 censuses indicating that the actual increase in the number of other cows has been as great as, if not greater than, the increase in the number of cows kept for milk. Among these facts attention is called to the following: Of 6,285,220 cattle reported in 1890 on ranges in the South Central and Western states, the percentage of cows was 43.8. This percentage is based upon the assumption that all the animals reported as "cows and calves," were cows with calves. If it be assumed that one-half the number were calves, the percentage of cows was only 28.2. In the Western states in 1900 the cows constituted 54.7 per cent of the total number of cattle, exclusive of calves. The corresponding percentage in the South Central states was 54.3. The relative number of cows, other than dairy cows, therefore, has increased materially in ten years, the above percentages indicating a gain of over 20 per cent.

The statistics of calves for the 2 groups of states tend, in a general way, to confirm this conclusion. The number of calves dropped on farms in 1889, as reported by the Eleventh Census, was equal to 23.9 per cent of the total number of cattle on hand June 1, 1890. The number of calves on hand June 1, 1900, was equal to 28.3 per cent of the number of all other cattle on hand at that time. As not all the calves of 1900 had been dropped by June 1, it is doubtless true that the proportion of calves to the total number of cattle has increased in ten years to an even greater extent than indicated by the above percentages.

This increase in the proportion of cows and calves to the total of neat cattle is accompanied by an increase in the actual numbers of both classes of animals. The extent of the former increase can not be definitely calculated from any available data, but in all probability it exceeds that for dairy cows, which was given as 5.0 or 6.0 per cent.

The increases in the actual and relative numbers of

calves, dairy cows, and other cows during the ten-year period, which chronicles an actual decrease in the number of all neat cattle, have been accompanied by a decrease in the number of so-called beef cattle, steers 2 and 3 years old. This decrease has been caused mainly by the fact that in 1899 beef cattle were marketed at an earlier age, on an average, than in 1889. There has been a gradual reduction for many years in the average age at which beef cattle are marketed, and the tendency toward this change was widened in the spring of 1900 by the high prices prevailing. All cattle that could be placed on the market were sold, and thus the number of beef cattle over 2 years of age on the farms was reduced. For a portion of the country the extent of this change can be determined with but a small margin of error. The Eleventh Census in its statistics of range cattle reported 3,529,760 animals other than cows and calves. These animals were classified by age, the average being 2.18 years. The average age of neat cattle other than cows and calves reported in the Western and South Central states in 1900 was 1.63 years. In those states, therefore, the average age decreased in the decade 0.55 year, or about six months. It is probable that the corresponding decrease in the other states was smaller. The average age at which beef cattle are marketed is always somewhat greater than the average age of all neat cattle on hand on June 1, of any year, but the decrease for any period of time in the average age of animals on hand corresponds closely with the decrease in the average age of those marketed or slaughtered. Further, the number of beef cattle marketed or slaughtered in any year during such a period bears a nearly constant ratio to the number of cows and calves on hand. These, as already noted, have not declined in number during the decade, but have slightly increased. In all probability, however, the rate of increase has not equaled that of population. Whether the beef supply has increased proportionately with population is uncertain, since a definite statement upon that point requires more exact information concerning the number and average weight of animals converted into meat in 1889 and 1899 than is at present available.

Texas has more neat cattle within its borders than any other state. It reports 9,428,196. Of the other states reporting more than 3,000,000, Iowa has 5,367,630; Kansas, 4,491,078; Nebraska, 3,176,243; and Illinois, 3,104,010. Three states have over 1,000,000 dairy cows each: New York heads the list with 1,501,608; Iowa is second with 1,423,648; and Illinois third with 1,007,664. In the number of "other cows," kept mainly for breeding purposes, Texas leads the list with 3,369,880. This is twice the number reported for the other states and territories which, with Texas, constitute what is known as the South Central group, and more than is found in any other geographical division.

Of calves, Texas reports 2,148,261 and Iowa 1,290,279.

No other state reports a million. Texas, as is shown by the foregoing figures for cows and calves, ranks first in the breeding of neat cattle. These cattle are shipped in large numbers to other states for feeding or fattening, and consequently several states report more 2 and 3 year old steers than does Texas. Of steers 3 years old and over, Kansas reports 430,633; Indian Territory, 354,530; Texas, 341,286; and Oklahoma, 306,675. No other state reports 300,000. Many of the steers reported by Kansas, Indian Territory, and Oklahoma, were bred in Texas. Of steers 2 and under 3 years, Iowa has the greatest number, 603,745; Texas has 593,603; Missouri, 363,775; and Nebraska, 317,360. The farmers of Iowa, as a rule, sell the greater portion of their steers between the ages of 2 and 3 years. Oklahoma and Indian Territory farmers prepare large numbers of Texas steers 3 years old and over for market.

For the United States the average value of all neat cattle, June 1, 1900, was \$21.77. It was highest in the North Central states and lowest in the South Atlantic states, being \$24.59 in the former and \$14.97 in the latter. The average was highest in the District of Columbia, \$37.26, and lowest in Florida, \$8.44.

The average value of dairy cows for the country as a whole was \$29.68. The highest average value was in the Western states and the lowest in the South Atlantic, being \$35.42 in the former and \$21.97 in the latter. Of the individual states Montana reported the highest average, \$41.89, and Florida the lowest, \$13.31.

The Western states are evidently doing more than any other section of the country to improve the grade of cattle kept. This is shown not only by the high values of dairy cows, but more especially by the average price of bulls. This was \$42.12, as compared with \$15.26 for the South Atlantic states. The average value of steers 3 years old and over was highest in the North Atlantic states, while those 2 years and under 3 were worth most in the North Central states. The explanation of this apparent anomaly is found in the fact that in the North Atlantic states relatively more work oxen are kept than elsewhere, while in the North Central states are found the greatest relative number of well-bred steers being fattened for market before they reach 3 years. The large number of work oxen found in Alabama explains the wide variation in the average values of 2 and 3 year old steers in that state; the average value of 2-year-olds is only \$9.76, while 3-year-olds are worth \$20.56 per head. The same factor also explains a similar variation in average prices of these 2 classes of steers in both the North and South Atlantic divisions.

HORSES.

Horses were reported by the proprietors of 4,532,018 farms and ranges and of 1,373,661 barns and other inclosures not on farms or ranges. The number on farms and ranges comprised 1,315,208 colts under 1

year, 1,447,747 horses 1 and under 2 years, and 15,517,052 horses 2 years and over. The numbers not on farms or ranges were, for the three classes named, 33,090, 30,402, and 2,873,389, respectively. There was a total for the nation of 18,390,441 work horses and 2,826,447 too young for work, making a grand total of 21,216,888 horses, of which 86.2 per cent were on farms and ranges, and 13.8 per cent in barns and inclosures elsewhere.

In 1890 the census reported 1,813,413 colts foaled in 1889. In 1900 the colts 1 and under 2 years numbered 1,447,747, and those under 1 year, 1,315,208. Not all the colts of 1900 were foaled at the time of the enumeration June 1, but the number of yearling colts, with an allowance for those dying of disease or accident, probably approximates the number foaled in 1899. After making allowance for all such losses it is certain that fewer colts, actually and relatively, were foaled in 1899 and 1900 than ten years before. The decrease was not less than 10 per cent, and may have amounted to 15 per cent.

With this decrease in the number of colts foaled there has been an actual increase in the number of horses on farms. This apparent anomaly is explained by the following facts: Horses are receiving better care than formerly, and fewer young animals are lost through disease and accident. As a result the average working life of horses has been lengthened. Further, the relative number of horses used in cities and towns has decreased, owing to the substitution of steam and electricity for horsepower upon street railways and for private vehicles.

Exclusive of colts under 1 year, the number of horses on farms and ranges in the United States increased from 15,266,244 in 1890 to 16,964,799 in 1900, a gain of 11.1 per cent. In the North Atlantic states the number decreased from 1,738,864 to 1,641,395, a loss of 5.6 per cent. In the South Atlantic states there was an increase from 880,758 to 1,014,543, or 15.2 per cent; in the North Central states, from 8,573,864 to 9,070,366, or 5.8 per cent; in the South Central states, from 2,461,961 to 3,175,869, or 29.0 per cent; and in the Western states from 1,610,797 to 2,050,018, or 27.3 per cent.

But 3 states reported over 1,000,000 horses each. They were Iowa, 1,392,573; Illinois, 1,350,219; and Texas, 1,269,432.

On June 1, 1900, the average value of horses in the United States was \$49.07. The highest average, \$72.60, was reported by the North Atlantic division of states, and the lowest, \$29.01, by the Western division.

The very low average for Arizona, \$13.61, is due to the presence in that state of large numbers of Indian ponies on reservations. The same factor and the inferior grade of many horses on ranges reduce the average value in nearly all the Western states. The highest average value reported was for Rhode Island, where it was \$86.12.

For the United States the average value of colts under 1 year was \$19.69; of colts 1 and under 2 years, \$33.39; and of horses over 2 years, \$53.02. In most states and groups of states there is a similar gradation of average values for the 3 classes. A few noteworthy exceptions are found, however. In New Jersey the price of colts under 1 year was \$83.93; of those 1 and under 2 years, \$78.71; while horses 2 years and over were worth \$80.64. The high average value of all classes of horses in this state is due to the presence of a few farms making a specialty of raising blooded stock for track and breeding purposes. The large number of young colts on 1 of these farms in Monmouth county was sufficient, owing to the small relative number of colts in the state, to raise the average for the youngest class above that for either of the other 2 classes.

The presence of a number of similar farms in Fayette county, Ky., raises the average value of colts 1 and under 2 years above that of horses 2 years old and over. The average value of such colts in that county is \$377.78. Exclusive of Fayette county, the yearling colts of Kentucky have an average value of approximately \$43.00, which harmonizes with the values for other horses.

In North Dakota the importation of many valuable horses of working age has raised the average value of 2-year-old horses much above that of the younger horses. The existence of large numbers of cheap ponies on the Rosebud and other Indian reservations of South Dakota, greatly reduces the average value of horses of all classes in that state.

Vermont is one of the North Atlantic states that reported fewer horses in 1900 than in 1890. It also shows the lowest average value for horses of any of the New England states. The factors reducing the number of horses have doubtless assisted in depressing the average value, which, twenty years ago, was among the highest reported by the New England states.

MULES.

Mules were reported by the proprietors of 1,480,913 farms and ranges, and of 53,627 barns and other inclosures not on farms or ranges. On farms and ranges there were 231,697 colts under 1 year; 279,925 colts 1 and under 2 years; and 2,759,499 mules 2 years and over. In barns and inclosures not on farms there were 3,156 colts under 1 year; 4,328 colts 1 and under 2 years; and 166,424 mules over 2 years. The total number of work mules 2 years and over in the United States on June 1, 1900, was 2,925,923, and the number of growing mules under 2 years was 519,106, making a grand total of 3,445,029 mules, of which 95.0 per cent were on farms and ranges.

The census of 1890 reported 157,022 mule colts foaled on farms in 1889. A comparison of this number with the number of mule colts 1 and under 2 years, or of those under 1 year, on hand June 1, 1900, shows conclusively that the breeding of mules in 1899 and 1900

was nearly twice as great as ten years before. Accompanying this increase there has been a material addition to the total number of mules on farms. Assuming that the mule colts foaled in 1890 were not included with the mules reported in that year, it is found that the number of mules on farms and ranges increased in the decade from 2,265,985 to 3,039,424, or 34.1 per cent. The increases in the 5 geographical divisions were as follows: In the North Atlantic states from 42,936 to 46,033, a gain of 7.2 per cent; in the South Atlantic states from 415,090 to 545,840, a gain of 31.5 per cent; in the North Central from 643,881 to 652,360, a gain of 1.3 per cent; in the South Central from 1,074,472 to 1,677,607, a gain of 56.1 per cent; and in the Western states from 89,606 to 111,147, a gain of 24.0 per cent.

The number of mules reported in 1890, as given above, included the asses on ranges, as they were not designated separately. Except possibly in the Western states, they were so few in number as to be a negligible quantity.

The 5 states reporting over 200,000 mules each were: Texas, 507,281; Missouri, 283,519; Tennessee, 253,657; Mississippi, 214,259; and Georgia, 207,321.

The average value of mules, as of horses, was highest in the North Atlantic states and lowest in the Western states. In the former it was \$75.22 and in the latter \$49.85, while for the nation it was \$60.17. The highest state average, \$81.78, was in Connecticut, and the lowest, \$27.81, in Utah. The low average for the latter state, and in a number of other Western states, is due to the inferior grade of horses used in breeding these animals.

ASSES AND BURROS.

Asses and burros were reported on 33,875 farms and in 6,929 barns and inclosures not on farms. The number on farms June 1, 1900, was 95,603, and in barns and inclosures elsewhere, 15,847. Of the total number, 111,450, those on farms constituted 85.8 per cent. The total number reported on farms and ranges in 1900 exceeds the number reported in 1890 by 46,514, an apparent gain of 94.8 per cent. It is probable that a large part of this gain is the result of more perfect enumeration of burros in the South Central and Western states than was secured in 1890.

The average value of asses and burros was highest in the North Central, South Atlantic, and South Central states in the order mentioned. In all of these states mules are bred in considerable numbers. In the Western states the presence of large numbers of very cheap burros materially reduces the average value.

SHEEP.

Sheep were reported from 763,543 farms and ranges and from 8,225 barns and inclosures not on farms. The sheep on farms comprised 21,668,238 lambs under 1 year, 31,919,298 ewes 1 year and over, and 8,018,275 rams and wethers over 1 year. Of those not on farms

and ranges, 51,701 were lambs; 139,622, ewes; and 39,978, rams and wethers. There were 40,117,173 wool-bearing sheep, and 21,719,939 lambs, a grand total of 61,837,112, of which 99.6 per cent were on farms or ranges.

The number of wool-bearing sheep on farms and ranges decreased in the past decade from 40,876,312 to 39,937,573, a loss of 2.3 per cent. In the North Atlantic states the number decreased from 4,133,027 to 2,533,579, or 38.7 per cent; in the South Atlantic, from 2,445,386 to 1,706,199, or 30.2 per cent; in the North Central, from 12,332,154 to 10,055,721, or 18.5 per cent; and in the South Central, from 7,027,197 to 3,328,848, or 52.6 per cent. In the Western states the number increased from 14,938,548 to 22,228,620, or 48.8 per cent.

The large decrease shown for the South Central states was confined principally to Texas, in which state there has been an increase since 1890 of over 100,000 in the number of farms. The settlement of these farms has resulted in materially reducing the area of range land in the state, and has greatly enhanced the value of all land suitable for cultivation. As a result, many ranchmen have found it difficult to secure pasturage for their flocks at a reasonable rental, and have either disposed of their holdings, or removed them to less expensive grazing lands in neighboring states and territories.

Throughout the older parts of the country, and in a less degree in the more newly settled states, the small farmer has found it less profitable in recent years to keep sheep than dairy cows and other neat cattle; hence the decline in sheep husbandry in all farming sections.

In the Western states sheep raising is still a leading industry. The large increase noted for the last decade was confined almost entirely to the ranges, and represents an addition of over 7,000,000 to the number of sheep formerly kept in these states. This addition is due in small part to a substitution of sheep for neat cattle, but more largely to additions to flocks kept on the public domain. Many sheep are maintained in the winter months on the arid plains and deserts, feeding upon sagebrush that can not be made to contribute to the support of neat cattle or horses.

On June 1, 1900, seven states each reported over 3,000,000 sheep, including spring lambs. Montana heads the list with 6,170,483. Wyoming had 5,099,613; New Mexico, 4,899,487; Ohio, 4,020,628; Utah, 3,818,423; Idaho, 3,121,532; and Oregon, 3,040,291.

For the country as a whole the average value of all sheep, including lambs, was \$2.76. It was highest in the North Atlantic states and lowest in the South Central states, being \$3.17 in the former and \$2.33 in the latter. Of the individual states, New Jersey showed the highest average, \$4.24, and Georgia the lowest, \$1.30. The average value of lambs was \$1.94; of ewes, \$3.18; and of rams and wethers, \$3.36.

As a rule, the same general relation exists between

the average values of these 3 classes in all parts of the country. Where variations occur, as in Delaware, they are generally caused by the proximity of some market which consumes large numbers of spring lambs at comparatively high prices.

SWINE.

Swine were reported on 4,335,989 farms and ranges, and in 462,861 barns and inclosures not on farms. The total number reported was 64,694,222, of which 62,876,108, or 97.2 per cent, were on farms and ranges, and 1,818,114 were in barns and inclosures elsewhere.

In the decade ending June 1, 1900, the total number on farms and ranges increased from 57,426,859 to 62,876,108, or 9.5 per cent. In the North Atlantic states the number decreased from 2,753,349 to 2,322,206, or 15.7 per cent. In the other geographical divisions there were increases as follows: In the South Atlantic states, from 5,082,321 to 5,562,762, or 9.5 per cent; in the North Central states, from 37,624,632 to 40,474,289, or 7.6 per cent; in the South Central states, from 10,898,586 to 13,047,827, or 19.7 per cent; and in the Western states, from 1,067,971 to 1,460,957, or 36.8 per cent.

Nearly two-thirds of the swine are raised in the North Central states. Iowa ranks first with 9,723,791, or 15.5 per cent of the total number on the farms and ranges of the whole country. The value of the swine of this state constitutes 18.9 per cent of the total.

The fact that the number of swine increased but 9.5 per cent in the decade 1890 to 1900, taken in connection with the facts reviewed under the discussion of neat cattle, may be considered as evidence supporting the contention of those who believe that in the last ten years the meat supply has not kept pace with the population.

Next to Iowa, the most important swine raising states are: Illinois, with 5,915,468; Missouri, with 4,524,664; Nebraska, with 4,128,000; Indiana, with 3,763,389; and Kansas, with 3,594,859.

For the nation the average value of swine was \$3.69. The highest average, \$5.60, was in the North Atlantic states, and the lowest, \$2.29, in the South Atlantic states. The small relative number of swine raised in the North Atlantic states, and the easy access to large markets, accounts for the high values there. In the South Atlantic and South Central states, the averages are greatly reduced by the presence of large numbers of animals of very inferior quality, many of which run wild, especially in the mountain districts. In Florida the average value was only \$1.51. Montana reported the highest average of any state in the Western division, \$5.69. Here, and in a few other Western states, the number of swine raised is barely sufficient to supply the demand for home consumption, hence the comparatively high averages shown.

GOATS.

Previous to 1900 there had been no enumeration of goats. In 1900 they were reported by the operators of

77,534 farms and ranges, and from 22,167 barns and inclosures not on farms. The total number reported was 1,949,605, of which 1,871,252, or 96.0 per cent, were on farms and ranges, and 78,353 were in barns and inclosures elsewhere.

The numbers on farms and ranges by geographical divisions were: North Atlantic, 6,391; South Atlantic, 205,289; North Central, 120,036; South Central, 942,433; and Western, 596,450. Over one-half of the goats on farms and ranges were reported from the South Central states. Texas reported 627,333, or 66.6 per cent of the total number in the group. New Mexico ranked second, with 224,136, and Oregon third, with 109,661.

The average value of goats in the several states varies greatly. The presence of Angoras kept for mohair makes the average high in New England and in a few other states, while in Texas and New Mexico the average is rendered very low by the presence of large herds of inferior animals, raised for their hides.

ANIMALS SLAUGHTERED ON FARMS.

The Twelfth Census was the first to secure reports concerning the value of animals slaughtered on farms. The aggregate value thus reported was for the year 1899, \$189,873,310. The North Atlantic states reported \$26,674,965; the South Atlantic states, \$28,344,028; the North Central states, \$75,825,258; the South Central states, \$48,928,502; and the Western states, \$10,036,476.

Reports of the value of slaughtered animals were obtained from the operators of 4,124,273 farms and ranges, or 71.9 per cent of all farms.

The number of farm operators reporting animals slaughtered should be somewhat less than the number reporting swine or neat cattle, since not all of those having such animals on hand June 1, 1900, slaughtered any in 1899. The number of farms on which animals were slaughtered in 1899 is 4.9 per cent less than the number reporting swine June 1, 1900, and 12.8 per cent less than the number reporting neat cattle. The large proportion of farms with swine and cattle from which reports of animals slaughtered were received may, therefore, be accepted as evidence that the value of such animals, as reported above, is substantially correct. If the true value exceeds the totals here given, the margin of error can not be much, if any, greater than 5.0 per cent.

RECEIPTS FROM SALES OF LIVE ANIMALS.

Receipts from sales of live animals in 1899 were reported by the operators of 3,024,962 farms. In obtaining these reports, the enumerators were instructed to secure from each farm operator a statement of the amount received from sales in 1899, less the amount paid for animals purchased during the same year. The schedules for range animals called for separate statements of the receipts from sales and the amounts paid

for animals purchased, and the difference only was tabulated. The 3,024,962 farms whose operators reported sales of live animals constitute 52.7 per cent of the total number of farms, and 55.0 per cent of the number reporting domestic animals.

The total value of the animals sold was \$722,913,114, of which \$41,273,839 was from the North Atlantic states; \$22,931,535 from the South Atlantic states; \$510,050,897 from the North Central states; \$88,095,371 from the South Central states; and \$60,262,686 from the Western states.

The only available means of determining how far the reports of the farmers are complete is furnished by the reports of the wholesale slaughtering and meat-packing establishments. These establishments, according to the preliminary figures of the Division of Manufactures of the Twelfth Census, slaughtered animals in 1899 having a total value of \$570,596,875.

This total does not include the value of animals slaughtered by small local establishments, nor does it include the value of horses, mules, and asses sold by farmers. Further, the years covered by the reports of the Division of Agriculture and those of the Division of Manufactures are somewhat different. Allowing for these variations, however, it appears certain that the census report of the value of animals sold is substantially correct. Whatever margin of error there may be can not exceed that in the value of animals slaughtered on farms.

TOTAL VALUE OF ANIMALS.

The agricultural schedules used in the Eleventh and preceding censuses contained but one inquiry under which the enumerators were requested to report the "value of live stock." No instructions or explanations were given as to what was intended to be covered by the inquiry. It is probable that during the forty years in which the inquiry, thus worded, was used, the enumerators understood it to mean the value of domestic animals only. They probably did not include under the phrase, and hence did not report anywhere on the schedules, the value of poultry and bees. Under these circumstances, "the value of live stock," as reported in 1890 and in preceding census years, can be used in comparison with the "value of domestic animals," as reported in 1900, with but little if any uncertainty for all states in which the value of domestic animals on ranges was included with the value of those on farms. For states and territories where range animals were reported separately in preceding censuses, estimates of the values of such animals must be made and added to the "value of live stock."

In 1900 the value of domestic animals was derived from the answers to 20 questions by which the enumerators ascertained in detail for each farm the value, as well as the number, of each class of animals named in the schedules. Much more definite information has been obtained in this way, and the general

public is furnished more means of determining the accuracy of the total value reported. It is probable, moreover, that by this detailed system of reporting, fuller and more accurate statements of animal values have been secured, and that, as a consequence, the increase recorded in these values since 1890 does not so much reflect actual additions to values as the results of more careful enumeration.

Taking the figures as they stand, the Twelfth Census shows the following changes in the values of domestic animals in the preceding decade: On June 1, 1890, the value of all live stock on farms in the United States was reported as \$2,208,767,573. The estimated value of all live stock on ranges was \$100,000,000, making the total for farms and ranges \$2,308,767,573. The corresponding total on June 1, 1900, was \$2,981,722,945, a gain of 29.1 per cent. There was a gain in all of the geographical divisions except the North Atlantic, where the value declined from \$313,902,504 to \$305,360,856, or 2.8 per cent. This decrease was caused by losses in the number of neat cattle, horses, sheep, and swine, the increase in average values, and in the number of other animals having been insufficient to balance the same. In the South Atlantic states the value increased from \$161,631,801 to \$184,152,273, a gain of 13.9 per cent; in the North Central states, from \$1,195,704,262 to \$1,529,975,317, a gain of 28.0 per cent; in the South Central states, from \$392,155,328 to \$598,255,687, a gain of 52.6 per cent; and in the Western states, from \$245,373,678 to \$361,453,453, a gain of 47.3 per cent.

Iowa leads the states in the total value of domestic animals, while Texas ranks second. On June 1, 1900, the former had \$271,844,034 invested, and the latter \$236,227,934. Texas ranks first in the number and total value of neat cattle, but the larger number and higher average values of other animals, especially swine, gives Iowa a greater total investment in all domestic animals.

No reports were secured concerning the value of animals not on farms and ranges. They probably have average values somewhat greater than the animals on farms and ranges, since the greater number are located in the states having the highest average values for animals on farms. Allowing the same average values, however, the animals not on farms have a value of \$215,192,928. It is probable, therefore, that the domestic animals in the United States, June 1, 1900, had a value of at least \$3,200,000,000, of which amount the value of animals on farms and ranges constituted over 93 per cent.

DOMESTIC ANIMALS ON MILITARY RESERVATIONS.

Through the courtesy of the Secretary of War, an enumeration was secured of the domestic animals on all military reservations in the United States.

On June 1, 1900, the total number of horses on military reservations was 5,652, of which 4,446 were

cavalry horses; 870, artillery horses; and 336, draft horses. In addition, there were 2,635 draft mules and 355 pack mules, a total of 2,990. The above figures are not included in any of the totals given in this bulletin.

TABLES.

The tables presented in this bulletin are 3 in number.

Table 1 gives for the United States, and also by geographical divisions and by states and territories, the number and value of the animals in each of the general and subclasses into which domestic animals are divided. It gives the number of farms reporting animals of each of the 7 general classes; the number of farms reporting animals slaughtered in 1899, with the value of such animals, and the number of farms whose operators reported receipts from the sale of live animals in 1899, together with the amounts received from such sales.

Table 2 gives, by states and territories, the average values of the domestic animals of each class.

Table 3 presents, by states and territories, the total number of domestic animals of each class on farms and

ranges, and in barns and inclosures elsewhere, together with the number of all establishments reporting.

The geographical divisions used in the following bulletin are those adopted by the Eleventh Census. The states included in each division are as follows:

North Atlantic division: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

South Atlantic division: Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, and West Virginia.

North Central division: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

South Central division: Alabama, Arkansas, Indian Territory, Kentucky, Louisiana, Mississippi, Oklahoma, Tennessee, and Texas.

Western division: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

NOTE.—Alaska and Hawaii are not included in any of these divisions, and hence the figures for these territories are included only in the totals for the United States.

TABLE 1.—NUMBER AND VALUE OF SPECIFIED DOMESTIC ANIMALS ON

STATES AND TERRITORIES.	Number of farms.	DOMESTIC ANIMALS.		NEAT CATTLE.							
		Number of farms reporting.	Total value.	Number of farms reporting.	Total number.	Total value.	Calves under 1 year.		Steers 1 and under 2 years.		
							Number.	Value.	Number.	Value.	
1 The United States ¹	5,739,657	5,499,988	\$2,981,722,945	4,780,920	67,822,336	\$1,476,499,714	15,353,099	\$137,875,655	6,968,188	\$130,492,503	
2 North Atlantic division.....	677,506	638,503	305,360,856	592,441	6,389,835	151,899,421	1,258,219	8,506,488	188,429	2,954,984	
3 South Atlantic division.....	962,225	913,816	184,152,273	714,894	4,481,750	66,321,282	941,449	5,183,657	374,514	4,409,847	
4 North Central division.....	2,196,567	2,127,712	1,529,976,817	1,975,814	30,621,418	752,903,887	7,811,953	72,501,883	3,703,583	80,227,829	
5 South Central division.....	1,658,166	1,589,403	598,255,687	1,258,154	17,870,663	813,370,582	4,047,279	88,139,792	1,779,914	25,643,896	
6 Western division.....	242,908	228,988	861,453,453	189,677	8,455,749	190,709,481	1,756,682	17,958,686	906,673	17,116,146	
7 Alabama.....	223,220	211,053	34,408,932	168,388	799,734	9,793,556	213,397	826,805	52,023	355,759	
8 Alaska.....	12	5	1,880	4	18	1,315					
9 Arizona.....	5,809	5,596	15,375,286	3,746	742,635	11,367,466	135,181	1,133,178	65,203	898,604	
10 Arkansas.....	178,094	169,709	35,739,425	132,662	894,535	11,885,627	254,473	1,418,961	82,062	790,393	
11 California.....	72,542	66,064	65,000,738	52,463	1,444,624	32,655,146	329,430	2,796,201	134,962	2,296,430	
12 Colorado.....	24,700	23,758	49,859,781	20,524	1,488,318	35,582,738	269,154	3,130,465	204,101	4,130,902	
13 Connecticut.....	26,948	24,713	10,247,634	22,053	217,053	5,944,265	37,300	293,317	8,356	59,630	
14 Delaware.....	9,687	9,511	3,733,335	7,924	54,180	1,340,885	9,363	83,940	1,042	15,446	
15 District of Columbia.....	269	263	122,019	170	1,462	54,471	69	605	5	75	
16 Florida.....	40,814	37,561	10,687,632	26,328	751,261	6,344,349	138,393	586,919	67,292	405,590	
17 Georgia.....	224,691	215,520	33,499,683	158,707	899,491	8,828,498	211,579	770,968	62,128	343,053	
18 Hawaii.....	2,273	1,566	2,523,479	436	102,908	1,293,766	17,517	85,654	15,075	140,301	
19 Idaho.....	17,471	16,560	21,839,853	13,852	363,534	8,339,954	86,398	883,908	39,646	751,993	
20 Illinois.....	264,151	256,865	186,856,020	236,781	3,104,010	82,170,907	723,322	7,195,897	364,103	8,251,444	
21 Indiana.....	214,897	214,366	105,048,528	197,594	1,684,473	40,964,524	428,109	4,197,697	205,515	4,394,549	
22 Indian Territory.....	45,505	44,866	40,824,886	33,230	1,499,304	29,638,671	236,095	2,094,135	155,398	2,249,419	
23 Iowa.....	226,622	224,695	271,844,034	215,048	5,367,630	142,518,902	1,290,279	14,413,585	780,681	17,655,461	
24 Kansas.....	173,098	168,720	186,317,248	155,236	4,491,073	117,640,301	923,462	10,630,929	560,377	12,833,686	
25 Kentucky.....	234,667	223,727	70,488,137	196,308	1,083,248	24,987,741	250,502	2,480,227	141,943	2,851,444	
26 Louisiana.....	115,969	109,434	27,757,301	63,449	670,295	8,580,996	169,825	817,372	57,844	470,393	
27 Maine.....	59,299	54,172	16,298,422	50,227	338,847	7,585,546	61,794	411,104	15,508	218,758	
28 Maryland.....	46,012	44,408	19,636,844	38,447	292,646	6,853,121	55,465	453,971	13,693	219,247	
29 Massachusetts.....	37,715	33,393	14,730,169	29,197	285,944	8,130,917	43,621	357,542	2,476	38,393	
30 Michigan.....	203,261	193,404	75,997,051	180,158	1,376,048	28,165,256	375,482	2,480,467	155,938	2,510,554	
31 Minnesota.....	154,659	148,261	86,620,643	141,557	1,871,325	36,248,958	565,994	4,254,414	161,645	2,553,015	
32 Mississippi.....	220,803	210,096	40,343,300	149,680	873,356	12,070,921	238,601	1,157,630	63,962	525,015	
33 Missouri.....	234,886	277,570	154,295,363	246,609	2,973,689	75,656,807	633,317	6,943,267	389,309	8,713,534	
34 Montana.....	13,370	12,831	51,724,113	11,180	968,387	25,362,016	187,533	2,220,419	113,179	2,396,473	
35 Nebraska.....	121,525	119,019	142,769,629	109,895	3,176,243	82,469,498	754,500	8,767,661	401,158	9,303,685	
36 Nevada.....	2,134	2,141	12,093,608	1,823	385,192	8,273,260	81,061	851,351	41,103	796,399	
37 New Hampshire.....	29,324	26,008	10,062,877	23,201	226,792	5,546,630	40,434	305,895	9,028	139,302	
38 New Jersey.....	34,650	32,451	16,269,548	28,117	239,984	7,199,107	39,685	349,937	1,519	25,951	
39 New Mexico.....	12,311	11,668	31,644,179	5,978	991,859	17,977,931	188,762	1,989,648	89,367	1,492,875	
40 New York.....	226,720	216,210	120,673,101	201,510	2,596,389	62,735,174	507,140	3,144,954	36,446	573,624	
41 North Carolina.....	224,637	212,591	28,242,147	163,077	624,513	7,667,950	142,686	549,344	43,828	363,652	
42 North Dakota.....	45,332	42,968	41,951,659	37,128	657,434	15,810,637	156,420	1,540,116	92,234	1,866,101	
43 Ohio.....	276,719	266,724	120,466,134	249,994	2,053,313	40,560,240	494,584	4,186,575	223,940	4,300,265	
44 Oklahoma.....	62,405	60,295	53,921,827	49,835	1,709,752	37,783,115	300,125	3,203,409	159,651	2,961,890	
45 Oregon.....	35,837	34,159	33,172,342	30,768	700,303	15,164,897	168,323	1,536,473	68,754	1,253,752	
46 Pennsylvania.....	224,248	215,205	97,424,119	203,585	1,896,847	43,063,191	421,823	3,032,067	103,681	1,739,459	
47 Rhode Island.....	5,498	4,933	2,281,817	4,211	36,034	1,165,797	5,338	45,537	149	2,604	
48 South Carolina.....	155,355	143,701	19,167,229	101,645	342,898	4,334,714	87,734	361,454	14,975	95,327	
49 South Dakota.....	62,622	51,042	64,287,578	47,402	1,540,300	37,847,933	343,141	3,782,871	215,384	4,616,631	
50 Tennessee.....	224,623	217,042	58,043,895	185,311	912,183	15,401,051	236,000	1,606,949	110,368	1,432,639	
51 Texas.....	352,190	343,151	236,227,934	273,332	9,423,196	163,228,904	2,148,261	19,528,804	957,163	14,007,199	
52 Utah.....	19,387	18,334	21,175,867	17,185	343,690	7,152,344	78,940	729,551	32,505	544,555	
53 Vermont.....	33,104	31,418	17,373,169	30,340	501,940	10,528,795	101,584	566,130	11,266	151,763	
54 Virginia.....	167,886	161,108	39,831,552	134,861	825,512	16,333,847	162,053	1,273,728	91,579	1,541,054	
55 Washington.....	33,202	31,384	21,437,528	27,481	394,923	9,440,038	105,130	889,058	39,340	693,051	
56 West Virginia.....	92,874	89,153	29,231,832	83,235	639,782	14,058,427	134,107	1,102,228	79,972	1,425,903	
57 Wisconsin.....	169,795	164,073	98,521,430	158,362	2,314,105	46,849,418	623,343	4,107,904	205,798	3,228,304	
58 Wyoming.....	6,035	5,938	39,080,168	4,677	687,284	19,393,191	126,770	1,788,934	78,513	1,826,112	

¹ Data for Alaska and Hawaii included in totals for United States, but not in those for the five geographical divisions.

FARMS AND RANGES, JUNE 1, 1900, BY STATES AND TERRITORIES.

NEAT CATTLE—continued.												
Steers 2 and under 3 years.		Steers 3 years and over.		Bulls 1 year and over.		Heifers 1 and under 2 years.		Dairy cows 2 years and over.		Other cows 2 years and over.		
Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	
5,203,825	\$151,508,747	3,086,029	\$109,598,584	1,315,963	\$45,391,948	7,188,916	\$121,626,697	17,139,674	\$508,745,131	11,592,142	\$271,700,449	1
120,077	3,366,794	59,303	2,965,264	202,738	4,420,571	792,934	12,422,413	3,496,266	111,839,247	221,869	5,423,665	2
290,720	5,769,453	263,578	7,062,094	102,855	1,569,336	433,240	4,600,635	1,383,319	30,396,379	642,080	7,329,861	3
2,830,373	97,551,490	1,151,778	52,216,465	522,147	21,165,010	3,325,231	64,404,002	8,490,284	267,454,181	3,236,064	97,383,977	4
1,294,279	26,955,213	1,194,678	33,149,200	321,558	11,221,868	1,721,326	23,546,394	2,899,236	68,227,921	4,612,398	91,486,298	5
657,557	17,743,714	403,940	13,978,490	165,834	6,985,219	901,752	16,554,572	860,523	30,698,773	2,796,783	69,678,831	6
37,001	361,154	40,436	831,167	18,027	205,161	33,027	703,459	279,263	5,512,940	76,560	997,111	7
		4	450	1	55			13	810			8
42,116	743,845	30,577	666,953	20,437	483,411	73,437	961,318	17,965	577,693	357,719	5,901,964	9
36,893	494,955	12,301	250,618	13,117	232,062	103,555	1,064,074	312,577	6,349,871	79,557	1,284,763	10
109,183	2,722,506	86,340	2,796,313	24,725	845,470	143,289	2,696,263	307,245	10,739,800	304,450	7,762,893	11
136,775	3,927,154	62,069	2,120,710	26,437	1,460,909	151,627	3,156,858	100,116	3,797,997	433,030	13,807,743	12
3,254	97,588	7,219	439,034	5,025	120,728	26,476	461,570	126,434	4,262,545	7,994	209,903	13
970	22,919	1,321	45,630	1,654	40,618	5,373	91,933	32,591	993,372	1,866	46,527	14
1	25			22	1,060	76	1,357	1,251	50,999	38	950	15
46,731	404,300	44,516	556,313	19,342	193,998	70,445	453,458	78,330	1,043,349	235,712	2,634,922	16
36,100	271,966	31,254	403,933	24,769	229,015	93,535	680,407	276,024	4,653,971	164,052	1,470,135	17
10,319	122,033	12,753	231,631	830	29,839	9,433	93,621	4,023	127,320	32,943	457,767	18
27,726	797,550	10,522	364,197	6,309	236,442	40,398	762,389	51,929	1,797,122	100,606	2,705,353	19
299,233	11,557,852	38,543	4,628,175	59,732	2,284,576	332,472	6,735,360	1,007,664	34,279,218	223,931	7,233,335	20
140,343	4,326,863	35,690	1,704,357	23,723	1,113,307	133,193	3,660,133	574,276	18,235,504	88,619	2,777,104	21
194,231	4,131,103	354,530	9,644,350	12,193	463,966	99,734	1,393,359	110,637	2,653,501	336,441	7,002,333	22
603,745	23,624,339	173,016	9,510,610	93,154	4,403,021	592,076	12,242,609	1,423,643	46,349,012	461,031	14,315,225	23
530,461	17,466,124	430,633	17,450,632	62,469	3,039,345	447,235	9,112,935	676,456	22,191,123	359,925	24,366,027	24
107,655	3,326,702	49,530	2,140,220	12,937	431,512	104,861	1,380,432	364,025	10,513,031	51,745	1,359,424	25
30,094	343,357	26,539	536,360	10,733	207,261	66,076	620,250	184,315	3,607,033	124,769	1,923,524	26
11,156	266,452	11,442	532,323	6,995	152,934	45,377	621,354	173,592	5,060,043	12,433	272,017	27
14,063	335,354	13,639	494,255	10,027	246,334	23,930	495,742	147,234	4,339,777	9,490	213,441	28
1,735	47,029	1,943	105,736	7,209	135,543	34,452	537,030	184,562	6,546,954	9,946	262,090	29
49,745	1,292,329	4,555	153,641	19,406	547,254	161,174	2,635,313	563,905	17,231,305	46,205	1,197,393	30
53,635	1,423,199	9,143	313,247	42,549	1,202,197	211,162	3,299,365	753,632	21,513,337	63,565	1,639,634	31
35,111	404,232	43,149	1,040,517	17,601	238,333	39,935	399,300	299,313	6,403,246	35,629	1,346,543	32
363,775	12,451,323	143,955	6,313,362	43,390	1,921,321	312,749	6,040,539	765,336	23,514,794	324,193	9,252,117	33
113,363	3,379,211	35,303	3,411,530	14,556	735,577	97,399	2,002,199	45,036	1,386,530	311,513	9,270,977	34
317,360	10,991,720	119,590	5,690,337	51,791	2,567,433	345,275	7,413,317	512,544	17,192,120	674,025	20,552,720	35
29,503	304,642	12,363	431,342	3,696	334,406	44,967	792,272	13,306	462,631	153,333	3,749,637	36
6,997	173,233	7,571	413,250	5,050	112,992	29,374	402,463	115,036	3,615,354	13,102	319,036	37
923	27,329	533	23,313	3,271	226,177	23,609	470,434	157,407	5,340,223	7,977	235,133	38
32,307	720,012	19,646	547,376	27,532	1,097,114	114,045	1,706,333	16,775	510,043	502,365	9,354,024	39
23,492	656,229	3,253	335,373	35,140	1,730,526	335,344	5,151,703	1,601,603	43,694,512	93,466	2,393,243	40
26,579	329,944	30,692	572,244	17,741	133,507	63,732	561,321	233,173	4,426,709	61,032	675,729	41
69,920	2,073,203	25,531	971,163	10,342	476,317	69,333	1,379,513	125,503	4,073,546	103,146	3,425,103	42
144,725	4,571,321	27,932	1,243,524	39,276	1,226,696	217,571	3,959,411	313,239	24,723,332	37,040	2,347,072	43
191,340	4,550,770	306,675	8,392,031	22,323	917,477	125,029	2,262,973	165,352	5,045,563	433,257	9,943,942	44
43,923	1,142,145	21,443	725,205	13,675	474,777	73,623	1,330,105	122,447	4,093,333	133,100	4,559,107	45
64,252	1,903,405	16,332	712,704	69,006	1,607,337	224,623	3,705,397	943,773	29,141,561	43,307	1,221,261	46
135	4,376	727	40,305	331	23,559	3,315	73,276	23,660	937,137	1,379	33,003	47
3,157	74,544	19,113	315,707	10,116	125,621	33,379	291,705	126,634	2,541,723	42,235	523,133	48
179,099	5,354,431	77,402	3,314,330	23,243	1,039,437	167,607	3,347,421	270,634	8,400,313	270,235	7,991,374	49
63,301	1,236,363	20,127	490,640	11,927	292,251	94,224	1,243,153	321,076	3,137,474	49,560	961,527	50
593,603	12,106,522	341,236	9,272,747	202,145	8,133,295	954,335	13,473,334	361,023	19,995,327	3,363,330	66,661,626	51
17,512	413,679	6,073	174,437	5,445	219,312	40,461	631,040	65,905	2,037,367	96,349	2,352,353	52
3,123	135,663	5,173	261,661	15,211	260,725	63,664	339,031	270,194	7,740,303	21,715	472,374	53
37,026	2,349,944	79,203	2,399,662	11,033	294,930	71,952	1,020,057	231,376	6,641,677	40,735	303,745	54
24,123	643,161	9,096	330,940	7,439	269,311	44,113	305,325	107,232	4,076,139	53,395	1,722,503	55
71,033	1,930,437	43,730	1,774,300	3,096	244,303	60,263	900,655	205,601	5,694,302	36,370	396,279	56
73,319	1,917,616	10,773	412,572	43,062	1,233,031	235,319	4,526,536	993,397	29,642,522	69,094	1,730,773	57
30,446	2,444,309	60,003	2,403,337	10,333	727,990	67,333	1,549,469	13,272	720,633	244,359	7,331,297	58

* Including 30 Chinese buffaloes and 47 working bullocks.

TABLE 1.—NUMBER AND VALUE OF SPECIFIED DOMESTIC ANIMALS ON FARMS

STATES AND TERRITORIES.	HORSES.								
	Number of farms reporting.	Total number.	Total value.	Colts under 1 year.		Colts 1 and under 2 years.		2 years and over.	
				Number.	Value.	Number.	Value.	Number.	Value.
1 The United States ¹	4,532,018	13,280,007	\$896,955,343	1,315,208	\$25,900,109	1,447,747	\$48,335,128	15,517,052	\$822,720,106
2 North Atlantic division.....	593,059	1,699,139	123,349,325	57,744	1,848,932	82,978	4,669,925	1,558,417	116,830,468
3 South Atlantic division.....	634,220	1,071,070	59,905,516	56,527	1,324,033	60,944	2,482,859	953,599	56,098,624
4 North Central division.....	2,027,023	9,794,262	516,030,691	723,896	15,993,815	802,439	30,238,014	8,207,927	469,788,862
5 South Central division.....	1,159,658	3,424,763	131,144,238	248,394	4,487,897	241,086	6,476,530	2,934,783	120,179,811
6 Western division.....	216,668	2,277,786	66,033,447	227,768	2,242,194	258,778	4,371,311	1,791,240	59,469,942
7 Alabama.....	98,630	152,643	7,906,121	8,724	203,492	7,846	299,118	136,073	7,403,511
8 Alaska.....	3	5	465					5	465
9 Arizona.....	5,260	125,063	1,701,905	18,976	82,610	22,283	152,878	83,804	1,406,417
10 Arkansas.....	121,750	253,590	10,164,495	16,815	239,075	14,179	331,735	222,596	9,493,035
11 California.....	63,611	421,293	17,844,993	23,049	423,427	24,639	763,613	373,605	16,657,958
12 Colorado.....	23,020	236,546	7,303,726	23,645	291,280	27,360	530,164	185,541	6,487,282
13 Connecticut.....	22,934	52,576	3,813,632	429	17,952	1,480	94,030	50,667	3,701,650
14 Delaware.....	9,033	29,722	1,767,625	1,590	42,110	1,903	84,427	26,229	1,641,088
15 District of Columbia.....	265	854	57,362	16	590	24	1,475	814	55,297
16 Florida.....	26,972	42,311	2,290,139	2,239	42,156	2,185	75,232	38,387	2,172,751
17 Georgia.....	92,000	127,407	7,092,228	4,023	99,935	4,625	130,539	118,854	6,802,754
18 Hawaii.....	1,337	12,932	441,661	379	3,233	1,522	36,489	11,081	401,934
19 Idaho.....	15,907	170,120	4,123,343	18,212	136,246	20,832	278,326	131,076	3,708,771
20 Illinois.....	246,614	1,350,219	69,698,100	107,967	2,513,050	115,377	4,575,413	1,126,875	62,604,632
21 Indiana.....	202,815	761,715	40,641,988	62,426	1,308,117	54,820	2,365,668	644,469	36,968,203
22 Indian Territory.....	40,810	217,699	6,223,718	20,054	213,041	19,253	324,049	178,392	5,636,628
23 Iowa.....	218,955	1,392,573	77,720,577	124,527	2,991,073	133,539	5,359,392	1,134,457	69,870,107
24 Kansas.....	164,106	979,695	43,753,334	72,539	1,465,610	73,447	2,462,398	823,709	39,830,326
25 Kentucky.....	181,179	451,697	24,548,542	26,437	1,062,057	24,927	1,423,700	400,283	22,057,735
26 Louisiana.....	82,289	194,372	6,624,617	13,610	166,812	12,076	274,190	163,786	6,134,115
27 Maine.....	49,576	106,299	7,053,989	2,334	73,537	3,955	201,548	99,510	6,778,904
28 Maryland.....	41,593	143,994	9,352,694	8,942	231,074	9,938	455,204	130,114	8,666,416
29 Massachusetts.....	31,444	75,034	5,826,457	799	47,177	2,298	160,121	71,937	5,619,159
30 Michigan.....	133,914	533,559	35,903,557	31,018	746,534	33,406	1,711,541	517,135	33,450,432
31 Minnesota.....	140,519	696,469	42,255,044	45,504	970,772	51,399	2,031,557	599,566	39,252,715
32 Mississippi.....	127,033	229,311	10,832,851	17,039	367,069	14,489	495,714	197,733	10,020,068
33 Missouri.....	255,522	967,037	42,094,314	58,177	1,277,129	63,214	2,070,506	38,747,179	38,747,179
34 Montana.....	12,464	329,972	7,733,672	39,838	364,743	44,850	839,334	245,284	6,584,595
35 Nebraska.....	116,129	795,313	36,663,359	66,776	1,284,934	73,032	2,316,533	655,460	33,061,792
36 Nevada.....	2,032	80,295	1,272,336	10,773	56,236	11,001	102,188	58,516	1,113,852
37 New Hampshire.....	24,156	54,866	3,340,670	702	23,347	1,543	90,316	52,621	3,726,007
38 New Jersey.....	30,338	94,024	7,532,274	1,326	153,251	3,054	240,330	89,144	7,138,643
39 New Mexico.....	10,702	131,153	2,220,469	16,666	99,127	16,550	177,453	97,937	1,943,834
40 New York.....	203,469	623,438	47,977,931	20,027	650,894	30,033	1,771,023	573,373	45,556,014
41 North Carolina.....	103,160	159,163	8,795,611	5,307	131,675	5,927	233,332	147,419	8,430,054
42 North Dakota.....	41,694	359,948	22,723,511	28,625	546,743	32,131	1,127,100	299,192	21,054,668
43 Ohio.....	251,733	873,205	50,159,245	55,324	1,395,396	67,332	3,037,402	755,549	45,725,947
44 Oklahoma.....	56,574	303,631	10,615,294	26,933	423,331	28,332	656,139	243,316	9,535,324
45 Oregon.....	31,759	237,932	3,651,060	26,133	267,521	27,632	480,133	234,112	7,903,403
46 Pennsylvania.....	195,933	590,931	40,943,327	23,547	306,696	36,534	1,916,501	525,850	38,225,630
47 Rhode Island.....	4,644	11,390	980,943	91	4,740	179	13,779	11,120	962,429
48 South Carolina.....	58,541	73,419	4,346,903	2,701	69,778	3,138	161,537	72,530	4,615,533
49 South Dakota.....	50,193	430,768	20,035,637	47,124	700,748	52,659	1,369,292	330,935	18,015,347
50 Tennessee.....	153,355	352,333	19,631,517	23,353	663,620	23,109	993,396	305,426	18,024,501
51 Texas.....	292,933	1,269,432	34,497,033	95,429	1,099,900	96,825	1,623,439	1,077,173	31,773,694
52 Utah.....	17,306	115,834	3,396,313	11,395	122,343	13,515	247,343	90,974	3,026,122
53 Vermont.....	29,965	35,531	5,319,597	2,439	65,333	3,852	131,727	79,190	5,072,032
54 Virginia.....	123,347	233,622	15,326,404	19,257	441,358	20,291	730,009	253,974	14,104,537
55 Washington.....	28,256	243,935	3,550,434	22,359	253,653	30,312	502,760	191,314	7,794,016
56 West Virginia.....	74,254	135,133	10,376,550	11,947	264,357	12,963	501,504	160,278	9,610,139
57 Wisconsin.....	164,769	555,756	34,316,475	33,330	733,154	41,933	1,371,157	479,334	31,657,164
58 Wyoming.....	5,711	135,543	3,225,196	16,712	144,443	19,754	297,109	99,077	2,733,644

¹ Data for Alaska and Hawaii included in totals for United States, but not in those for the five geographical divisions.

AND RANGES, JUNE 1, 1900, BY STATES AND TERRITORIES—Continued.

MULES.									ASSES AND BURROS, ALL AGES.			
Number of farms reporting.	Total number.	Total value.	Colts under 1 year.		Colts 1 and under 2 years.		2 years and over.		Number of farms reporting.	Number.	Value.	
			Number.	Value.	Number.	Value.	Number.	Value.				
1,480,913	3,271,121	\$196,812,560	231,697	\$6,208,286	279,925	\$11,775,191	2,759,499	\$178,834,083	33,875	95,603	\$5,824,539	1
10,960	47,655	3,584,603	1,622	62,024	4,211	245,854	41,822	3,276,725	538	1,187	39,071	2
347,091	555,129	38,035,487	9,289	277,980	20,552	1,045,582	525,288	36,711,925	1,416	2,301	216,228	3
286,613	750,655	42,537,747	98,295	2,802,769	103,422	4,410,750	548,988	35,324,219	8,709	19,890	2,221,290	4
807,719	1,789,438	105,995,812	111,831	2,847,388	139,781	5,653,224	1,537,826	97,494,700	16,421	40,057	2,899,075	5
19,269	121,738	6,068,904	10,591	211,738	11,585	399,997	99,612	5,457,160	6,500	30,780	435,520	6
120,215	192,070	13,104,642	4,635	134,232	7,853	390,664	173,522	12,579,746	900	1,319	134,826	7
890	4,077	123,539	445	7,273	552	13,384	3,080	102,882	883	4,025	32,162	8
88,824	175,001	9,989,704	8,734	209,940	10,908	433,326	155,359	9,346,438	1,383	2,479	222,185	9
9,738	84,773	4,610,909	5,035	104,787	6,469	247,975	73,269	4,258,147	953	2,227	146,697	10
2,293	6,784	325,547	893	22,303	374	33,300	5,017	269,944	795	5,513	52,010	11
131	278	22,735	20	660	27	1,810	231	20,265	21	24	780	12
2,223	4,745	345,401	107	5,450	289	17,930	4,349	322,021	6	15	845	13
21	81	6,050					81	6,050				14
8,680	13,664	1,074,972	102	3,312	377	22,102	13,185	1,049,558	31	98	3,446	15
133,148	207,321	14,464,822	1,489	44,951	5,021	261,684	200,811	14,148,187	298	519	45,850	16
261	6,506	590,507	69	1,387	424	19,775	6,013	569,345	291	1,488	13,355	17
630	1,793	70,542	275	6,258	209	6,610	1,309	57,679	83	362	10,733	18
49,758	124,644	7,420,511	13,804	401,070	13,194	585,666	97,646	6,433,775	1,045	2,529	223,147	19
29,091	66,717	3,717,083	7,165	216,355	7,320	324,353	62,232	3,176,375	650	1,008	116,144	20
20,048	56,858	2,878,825	4,289	92,494	5,059	174,180	47,510	2,612,151	610	1,262	117,940	21
22,615	55,747	3,586,761	6,488	207,356	6,807	333,830	42,452	3,045,575	625	1,332	150,768	22
41,709	118,704	6,507,916	18,809	518,591	18,330	751,271	81,565	5,238,054	1,836	3,787	423,176	23
85,233	190,665	11,105,553	20,710	600,746	20,945	933,563	149,010	9,571,244	2,134	5,259	459,210	24
53,948	143,970	10,636,982	2,325	52,950	6,225	293,765	135,420	10,290,267	368	683	51,685	25
153	853	19,530	92	2,675	21	970	240	15,885	28	48	769	26
7,135	17,511	1,394,522	405	15,192	1,136	66,408	15,970	1,312,922	41	69	6,310	27
120	298	20,685	57	2,260	27	1,480	214	16,945	30	51	1,709	28
1,311	2,916	153,475	349	9,000	188	7,856	2,379	141,619	53	95	3,193	29
3,797	8,339	436,580	722	24,682	313	39,020	6,804	422,878	88	161	11,475	30
119,933	214,259	14,123,807	7,581	229,146	12,286	606,409	194,392	13,302,252	1,005	1,773	216,609	31
101,631	283,519	15,482,282	41,424	1,140,502	47,111	1,939,879	194,984	12,401,901	3,561	8,777	1,111,893	32
424	2,729	102,741	576	12,806	404	12,021	1,749	77,914	53	128	16,008	33
21,791	55,124	3,171,460	6,201	182,875	6,671	293,356	42,252	2,695,229	474	732	116,756	34
349	2,792	85,601	607	3,716	440	9,169	1,745	67,716	90	256	23,886	35
42	97	6,072	12	232	13	630	72	5,210	14	27	1,565	36
2,359	4,888	354,037	67	2,344	322	20,823	4,499	330,370	33	43	2,455	37
1,645	5,311	183,132	561	8,040	632	15,307	4,118	159,735	3,108	15,902	64,528	38
1,645	3,313	229,172	192	6,162	132	9,160	2,939	213,850	153	338	8,109	39
88,591	135,610	8,677,298	3,076	81,927	5,600	256,401	126,934	8,338,970	546	825	69,460	40
2,049	6,880	476,366	408	11,615	510	25,237	5,962	439,514	62	96	13,231	41
7,352	16,771	941,211	1,464	46,525	1,321	60,244	13,936	834,442	177	250	18,981	42
21,593	55,677	2,828,630	6,272	162,288	6,751	252,457	42,654	2,413,885	748	1,521	124,171	43
1,458	7,446	318,249	1,091	20,882	1,014	30,013	5,341	267,354	156	305	42,423	44
15,336	38,059	2,907,690	1,144	45,876	3,604	210,286	33,311	2,651,528	242	576	22,559	45
23	38	2,335			2	65	36	2,770	4	5	210	46
75,428	117,369	8,415,523	520	18,937	3,081	137,207	113,768	8,209,379	147	247	22,353	47
2,831	6,304	345,609	918	24,573	743	30,180	5,143	290,856	120	195	19,021	48
112,385	253,657	16,200,550	24,631	724,608	28,674	1,284,211	200,302	14,191,731	3,754	8,852	703,702	49
185,435	507,231	25,121,619	32,544	649,934	41,080	1,284,649	433,657	23,186,936	5,519	10,409	868,747	50
680	2,116	58,850	458	6,279	380	9,775	1,278	42,796	212	338	15,555	51
146	331	21,847	38	1,315	13	630	280	19,902	13	25	915	52
25,477	47,474	2,941,765	2,379	83,918	4,196	192,701	40,399	2,665,146	261	412	52,231	53
782	2,690	138,185	441	10,669	322	12,992	1,927	114,524	73	100	16,481	54
6,388	11,354	725,134	711	24,293	852	41,149	9,791	659,692	86	116	15,234	55
2,178	4,490	243,493	543	19,625	414	19,867	3,533	204,001	118	428	8,505	56
380	1,227	51,609	209	3,730	239	9,451	779	38,428	94	414	10,037	57

TABLE 1.—NUMBER AND VALUE OF SPECIFIED DOMESTIC ANIMALS ON

STATES AND TERRITORIES.	SHEEP.									
	Number of farms reporting.	Total number.	Total value.	Lambs under 1 year.		Ewes 1 year and over.		Rams and wethers 1 year and over.		
				Number.	Value.	Number.	Value.	Number.	Value.	
1 The United States ¹	763,543	61,605,811	\$170,837,002	21,008,238	\$42,027,828	31,919,298	\$101,876,142	8,018,275	\$26,933,032	
2 North Atlantic division.....	120,377	4,247,100	13,446,671	1,713,521	4,141,901	2,259,823	8,232,125	273,756	1,072,645	
3 South Atlantic division.....	106,420	2,693,915	6,761,299	992,716	2,238,563	1,381,330	3,767,442	321,869	755,264	
4 North Central division.....	358,569	16,180,556	43,111,639	6,124,395	11,863,771	8,675,532	30,960,874	1,380,139	5,287,044	
5 South Central division.....	152,394	4,877,473	11,364,079	1,548,625	3,221,223	2,439,135	5,962,405	889,713	2,180,451	
6 Western division.....	25,758	33,499,669	90,519,411	11,271,049	20,550,870	17,101,832	52,365,884	5,126,788	17,602,657	
7 Alabama.....	17,962	317,053	438,299	87,755	104,153	157,830	259,428	71,463	124,718	
8 Alaska.....										
9 Arizona.....	602	924,761	1,901,764	256,303	348,828	452,271	1,061,358	216,137	491,578	
10 Arkansas.....	18,302	250,929	437,317	88,168	123,508	130,700	240,681	38,061	73,128	
11 California.....	3,616	2,563,353	7,003,231	338,385	1,579,388	1,335,390	4,046,633	339,578	1,377,210	
12 Colorado.....	1,255	2,044,314	5,534,397	691,991	1,144,294	1,089,680	3,417,731	263,143	1,022,372	
13 Connecticut.....	1,258	36,937	137,420	13,966	40,302	20,655	85,730	2,366	11,388	
14 Delaware.....	466	11,765	43,588	4,301	18,079	6,360	22,399	604	2,610	
15 District of Columbia.....										
16 Florida.....	864	124,520	239,261	21,311	32,433	55,381	109,136	46,328	97,692	
17 Georgia.....	10,301	336,278	433,363	77,334	84,163	162,704	221,003	96,190	132,697	
18 Hawaii.....	25	102,098	133,833	17,492	11,500	61,646	87,412	22,960	34,971	
19 Idaho.....	1,936	3,121,532	8,294,776	1,156,005	2,153,766	1,611,090	4,947,388	354,377	1,193,622	
20 Illinois.....	25,422	1,030,531	3,706,642	401,431	989,897	548,853	2,341,230	80,297	375,515	
21 Indiana.....	43,046	1,742,002	5,794,976	731,354	1,631,201	940,337	3,776,066	70,261	337,709	
22 Indian Territory.....	562	17,005	37,994	4,357	7,123	8,313	19,747	4,330	11,119	
23 Iowa.....	18,738	1,056,713	3,956,142	393,350	945,615	576,104	2,610,908	31,764	399,619	
24 Kansas.....	2,095	262,013	333,827	82,106	167,196	133,825	491,193	46,032	175,433	
25 Kentucky.....	50,835	1,297,343	4,191,205	531,135	1,779,651	647,333	2,172,170	68,320	239,334	
26 Louisiana.....	5,740	219,344	333,040	50,610	49,746	114,414	135,340	54,320	97,454	
27 Maine.....	13,361	420,116	1,116,433	167,903	364,706	240,717	709,720	11,496	42,057	
28 Maryland.....	6,330	191,101	696,531	79,531	263,248	101,006	331,448	10,514	46,335	
29 Massachusetts.....	1,447	52,559	193,596	13,690	51,520	30,441	125,357	3,423	16,719	
30 Michigan.....	63,330	2,747,609	7,162,664	1,121,679	1,935,321	1,503,503	4,737,021	117,427	490,322	
31 Minnesota.....	23,056	589,373	1,740,033	230,550	410,537	323,934	1,205,275	29,344	124,256	
32 Mississippi.....	14,430	312,632	534,945	76,162	107,166	162,133	239,401	74,232	133,373	
33 Missouri.....	33,013	1,037,213	3,350,346	423,510	999,349	587,757	2,060,359	75,946	290,633	
34 Montana.....	1,431	6,170,433	18,165,404	1,955,269	3,306,529	2,995,795	10,105,334	1,219,419	4,252,491	
35 Nebraska.....	2,764	511,273	1,678,493	175,323	330,353	279,073	1,102,371	56,377	245,269	
36 Nevada.....	255	337,039	2,344,365	313,733	573,919	434,574	1,300,152	133,677	465,794	
37 New Hampshire.....	4,202	105,113	309,451	39,795	92,525	61,295	201,333	4,023	15,533	
38 New Jersey.....	1,561	47,730	202,490	21,367	33,506	24,744	109,540	1,619	9,334	
39 New Mexico.....	2,504	4,339,437	10,643,514	1,565,269	2,370,563	2,350,376	6,323,316	432,367	1,444,135	
40 New York.....	40,625	1,745,746	5,921,941	761,230	1,940,133	933,315	3,729,631	46,201	252,127	
41 North Carolina.....	23,941	301,941	477,421	93,129	124,923	164,105	276,339	44,707	76,109	
42 North Dakota.....	4,957	631,952	1,937,136	230,515	331,406	340,273	1,193,611	111,164	412,119	
43 Ohio.....	73,636	4,020,623	10,956,303	1,372,373	2,370,351	2,030,033	6,790,239	553,157	1,705,213	
44 Oklahoma.....	242	71,353	179,733	22,323	39,255	37,641	105,341	10,334	34,642	
45 Oregon.....	6,696	3,040,291	7,563,447	1,073,936	1,919,020	1,430,232	4,133,763	431,073	1,455,064	
46 Pennsylvania.....	44,057	1,531,066	4,642,606	571,533	1,327,924	769,433	2,651,067	190,020	663,615	
47 Rhode Island.....	333	11,207	41,232	4,573	15,154	5,301	22,575	723	3,553	
48 South Carolina.....	3,921	71,533	111,770	19,102	25,365	40,473	66,202	11,933	20,203	
49 South Dakota.....	6,392	775,236	2,434,206	267,333	475,051	422,042	1,603,327	35,236	355,333	
50 Tennessee.....	37,905	496,011	1,179,424	133,207	330,743	256,032	651,730	51,772	137,901	
51 Texas.....	6,416	1,339,233	3,932,117	449,353	620,373	924,174	2,037,517	515,766	1,323,727	
52 Utah.....	3,544	3,313,423	10,256,433	1,265,239	2,313,306	1,393,302	5,695,313	659,332	2,211,304	
53 Vermont.....	3,533	296,576	331,402	114,409	223,021	163,202	597,117	13,375	53,264	
54 Virginia.....	24,732	692,929	2,039,779	300,304	317,731	353,549	1,135,069	33,576	136,920	
55 Washington.....	2,793	929,373	2,450,929	371,351	723,640	450,153	1,332,745	93,364	339,544	
56 West Virginia.....	30,266	963,343	2,664,556	396,104	367,571	497,247	1,554,696	75,492	242,239	
57 Wisconsin.....	47,061	1,675,453	4,510,356	639,241	1,176,969	913,633	3,043,239	67,574	235,113	
58 Wyoming.....	1,076	5,039,613	16,310,096	1,772,423	3,601,457	2,433,914	9,391,096	323,271	3,317,543	

¹ Data for Alaska and Hawaii included in totals for United States, but not in those for the five geographical divisions.

FARMS AND RANGES, JUNE 1, 1900, BY STATES AND TERRITORIES—Continued.

SWINE, ALL AGES.			GOATS, ALL AGES.			RECEIVED IN 1899 FROM SALE OF LIVE ANIMALS.		VALUE OF ANIMALS SLAUGHTERED ON FARMS IN 1899.		
Number of farms reporting.	Number.	Value.	Number of farms reporting.	Number.	Value.	Number of farms reporting.	Amount.	Number of farms reporting.	Value.	
4,385,989	62,876,108	\$282,027,707	77,534	1,871,252	\$3,266,080	3,024,962	\$722,913,114	4,124,273	\$189,878,310	1
453,306	2,822,206	13,011,051	1,945	6,391	30,114	401,941	41,278,839	468,725	26,674,965	2
757,439	5,562,762	12,733,747	19,101	205,289	173,764	310,823	22,931,535	705,002	23,844,028	3
1,740,132	40,474,289	167,776,242	13,392	120,086	393,771	1,576,856	510,050,897	1,719,591	75,825,258	4
1,266,069	13,047,827	32,233,204	34,917	942,433	1,249,197	631,805	88,095,371	1,123,591	43,923,502	5
118,417	1,460,957	6,218,187	8,160	596,450	1,418,503	103,802	60,292,686	107,236	10,086,476	6
171,602	1,423,329	2,887,230	8,633	117,413	94,258	57,916	1,958,640	151,881	5,189,443	7
1	10	100				3	310			8
1,063	13,103	80,587	436	98,403	167,863	1,977	2,908,745	1,687	296,018	9
136,620	1,713,307	2,981,309	4,571	51,899	58,788	65,887	3,752,843	116,835	4,927,481	10
27,396	593,336	2,476,781	1,579	109,021	262,981	24,616	13,305,165	20,667	2,449,820	11
11,073	101,198	432,722	620	37,433	73,141	10,949	8,477,587	10,523	1,093,365	12
13,359	46,447	326,857	73	313	1,945	13,105	1,189,235	14,310	845,123	13
8,155	46,732	234,472	43	143	519	5,096	396,264	8,007	424,400	14
63	302	4,097	6	9	39	4	475	13	2,440	15
30,151	464,277	702,827	2,154	43,705	32,639	9,222	330,657	23,946	1,257,643	16
174,232	1,424,298	2,577,950	6,716	34,624	61,972	50,805	1,689,015	155,246	5,392,046	17
625	8,057	49,576	19	653	731	227	238,476	128	64,331	18
10,016	114,080	450,333	68	4,431	20,167	7,764	3,909,454	3,975	626,237	19
220,405	5,915,463	23,616,731	1,642	8,377	19,932	138,944	69,462,993	214,094	10,154,596	20
180,219	3,793,339	13,804,393	1,513	4,434	3,920	164,346	40,365,661	135,703	3,016,595	21
35,449	650,255	1,906,200	733	10,529	21,633	20,005	6,415,707	23,473	1,557,139	22
203,080	9,723,791	43,764,176	3,007	41,463	146,703	190,097	113,078,523	137,094	3,443,933	23
133,724	3,594,359	17,076,904	995	13,233	71,230	127,192	64,596,534	130,580	5,864,274	24
180,626	1,954,537	5,176,133	2,144	11,967	19,733	122,784	16,660,676	133,941	3,193,080	25
71,073	733,425	1,494,234	2,723	33,303	35,697	17,600	1,072,869	43,339	1,929,437	26
34,361	79,013	516,015	70	279	1,091	31,969	2,371,717	35,370	1,253,594	27
37,415	317,902	1,323,143	227	1,179	4,023	22,944	2,372,560	35,442	2,173,197	28
14,573	73,925	549,617	145	1,254	7,133	13,238	1,234,454	13,450	932,411	29
143,292	1,165,200	4,533,393	537	2,361	10,003	132,850	13,343,356	147,056	5,333,736	30
114,753	1,440,306	5,365,590	493	3,321	12,903	97,614	16,046,622	113,276	4,903,051	31
162,949	1,290,493	2,903,573	5,431	55,333	45,594	52,139	2,203,466	133,390	4,313,416	32
225,254	4,524,664	16,533,935	2,754	24,437	64,733	199,935	54,013,309	223,531	9,765,379	33
5,237	49,496	231,402	61	1,713	7,370	6,639	9,176,330	5,616	906,316	34
102,531	4,123,000	13,660,932	433	2,399	9,123	94,436	49,022,404	93,374	4,503,457	35
1,223	15,174	75,712	39	4,633	12,943	1,160	2,260,221	1,172	270,223	36
16,047	51,211	357,573	61	203	916	13,622	1,345,941	16,400	794,342	37
22,422	175,337	926,179	200	699	3,006	17,524	1,633,767	13,924	1,406,137	38
4,409	20,426	81,644	2,374	224,136	472,961	2,991	3,740,673	3,962	605,296	39
151,704	676,639	3,794,332	576	1,316	6,442	147,233	15,025,932	162,630	3,319,750	40
132,662	1,300,469	2,516,410	5,039	42,901	37,997	63,473	2,435,252	176,303	7,109,655	41
26,930	191,793	930,470	142	1,122	5,303	13,551	3,902,074	25,532	1,673,533	42
216,472	3,133,563	11,313,163	1,025	5,432	16,975	133,642	40,373,674	222,155	10,276,931	43
43,345	534,373	2,330,025	277	3,772	13,354	31,560	10,547,764	35,702	2,925,346	44
22,763	231,406	1,057,037	2,173	109,661	375,229	19,379	6,533,325	21,523	1,665,395	45
175,354	1,107,931	5,330,295	763	2,197	3,931	141,450	15,494,173	130,503	11,627,930	46
2,061	11,503	90,614	16	23	131	1,361	157,473	1,691	142,324	47
110,994	613,995	1,411,516	3,643	26,576	24,450	29,734	323,554	94,302	2,730,079	48
37,396	323,120	3,540,072	252	2,915	15,050	35,607	12,707,331	36,516	1,567,049	49
136,300	1,976,934	4,333,713	3,663	25,334	33,933	122,331	11,121,141	132,375	3,350,046	50
277,605	2,665,614	7,605,637	6,742	627,333	923,777	141,533	34,357,265	233,255	11,032,614	51
14,433	65,732	293,115	93	1,427	2,702	9,395	2,695,504	13,370	659,369	52
23,365	95,000	620,169	41	102	444	21,374	2,736,137	24,942	1,347,754	53
140,269	946,443	2,572,524	1,004	5,305	10,002	70,706	7,300,124	133,533	5,359,531	54
13,375	131,535	330,704	165	2,376	10,757	15,362	3,517,053	17,106	1,163,302	55
73,493	442,344	1,339,303	219	347	2,123	53,294	6,533,034	72,705	2,395,032	56
130,521	2,014,631	7,530,423	534	3,332	12,760	123,092	27,131,916	134,530	5,407,114	57
1,924	15,471	73,145	47	2,666	11,334	3,020	3,673,124	2,629	394,635	58

TABLE 2.—AVERAGE VALUE OF SPECIFIED DOMESTIC ANIMALS

	STATES AND TERRITORIES.	NEAT CATTLE.								
		All cattle.	Calves under 1 year.	Steers 1 and under 2 years.	Steers 2 and under 3 years.	Steers over 3 years.	Bulls 1 and under 2 years.	Heifers 1 and under 2 years.	Dairy cows 2 years and over.	Other cows 2 years and over.
1	The United States.....	\$21.77	\$8.96	\$18.73	\$29.12	\$35.51	\$34.49	\$16.93	\$29.68	\$23.44
2	North Atlantic division.....	23.96	6.76	15.68	28.04	50.00	21.80	15.67	31.99	24.45
3	South Atlantic division.....	14.97	5.51	11.77	19.85	26.79	15.26	10.62	21.97	11.42
4	North Central division.....	24.59	9.92	21.66	34.47	45.34	40.53	19.37	31.50	29.04
5	South Central division.....	17.54	8.19	14.41	20.83	27.75	24.90	13.68	23.53	19.83
6	Western division.....	22.55	10.22	18.88	26.98	34.59	42.12	18.36	35.48	24.91
7	Alabama.....	12.25	8.87	6.84	9.76	20.56	11.88	8.47	19.74	13.02
8	Alaska.....	73.06				112.50	55.00		62.31	
9	Arizona.....	15.81	8.88	13.78	17.66	21.81	23.65	13.10	32.16	16.50
10	Arkansas.....	13.29	5.58	9.63	13.42	20.37	17.69	10.28	20.31	16.15
11	California.....	22.60	8.49	17.02	24.94	32.39	34.19	18.18	34.95	25.50
12	Colorado.....	24.79	11.63	20.24	28.71	34.17	55.26	20.82	37.94	28.59
13	Connecticut.....	27.39	7.86	17.77	29.97	60.82	24.03	17.43	33.71	26.26
14	Delaware.....	24.75	8.97	14.82	23.63	34.54	24.60	17.11	30.50	24.93
15	District of Columbia.....	37.26	8.77	15.00	25.00		48.18	17.86	40.29	25.00
16	Florida.....	8.44	4.24	6.03	8.65	12.50	10.29	6.51	13.31	9.40
17	Georgia.....	9.81	3.64	5.52	7.53	12.93	9.25	7.27	16.81	8.96
18	Hawaii.....	12.57	4.89	9.31	11.83	18.16	36.01	10.45	31.73	13.89
19	Idaho.....	23.08	10.23	19.72	28.77	34.61	37.48	18.88	34.61	27.49
20	Illinois.....	26.47	9.95	22.66	33.62	52.27	38.25	20.26	34.02	31.62
21	Indiana.....	24.32	9.81	21.33	34.39	47.75	38.93	19.98	31.84	31.34
22	Indian Territory.....	19.77	8.87	14.48	21.26	27.20	38.04	14.03	23.97	20.81
23	Iowa.....	26.55	11.17	24.16	39.13	54.97	47.32	20.68	32.56	31.05
24	Kansas.....	26.19	11.51	22.90	32.93	40.52	49.45	20.37	32.80	23.92
25	Kentucky.....	23.07	9.90	20.09	30.90	43.17	33.35	17.93	28.89	26.27
26	Louisiana.....	12.80	4.82	8.20	11.41	22.05	19.22	9.39	19.52	15.46
27	Maine.....	22.39	6.65	14.11	23.88	50.94	21.87	13.54	29.15	21.79
28	Maryland.....	23.42	8.18	16.01	27.39	36.11	24.57	17.14	29.47	23.02
29	Massachusetts.....	23.44	8.20	15.71	27.11	54.44	25.74	17.04	35.47	26.35
30	Michigan.....	20.46	6.63	16.10	25.99	34.83	28.20	16.66	30.65	25.93
31	Minnesota.....	19.37	7.52	15.79	24.27	34.26	28.25	15.63	28.55	24.64
32	Mississippi.....	13.82	4.85	8.21	11.51	24.11	16.41	10.00	21.41	15.73
33	Missouri.....	25.40	10.96	22.53	34.23	45.77	44.29	19.31	30.72	23.54
34	Montana.....	26.19	11.89	21.17	29.81	39.99	53.97	20.45	41.89	29.76
35	Nebraska.....	25.96	11.61	23.19	34.63	47.53	49.57	21.47	33.54	30.49
36	Nevada.....	21.48	10.51	19.38	27.27	33.53	44.20	17.62	34.01	24.45
37	New Hampshire.....	24.46	7.57	15.43	25.48	54.58	22.37	15.64	31.43	24.35
38	New Jersey.....	30.00	8.82	17.08	29.45	40.51	27.85	19.93	37.10	29.43
39	New Mexico.....	18.13	10.54	16.70	21.91	27.89	39.85	15.49	30.41	19.60
40	New York.....	24.16	6.20	15.88	27.93	46.70	20.33	15.34	32.43	24.31
41	North Carolina.....	12.23	3.85	8.30	12.41	18.64	10.63	8.17	18.98	11.06
42	North Dakota.....	24.05	9.85	20.23	29.65	38.04	46.10	19.90	32.50	31.67
43	Ohio.....	22.63	8.46	19.20	31.59	44.52	31.23	18.20	30.22	26.97
44	Oklahoma.....	22.00	10.69	18.55	23.78	29.00	40.20	18.10	30.42	22.69
45	Oregon.....	21.65	9.13	18.24	26.00	33.81	34.72	17.55	33.43	24.90
46	Pennsylvania.....	22.70	7.20	16.01	29.62	43.51	23.29	16.50	30.88	25.02
47	Rhode Island.....	32.35	8.53	17.48	36.12	56.13	28.35	19.21	39.61	27.56
48	South Carolina.....	12.64	4.12	6.40	9.14	16.51	12.42	8.61	20.06	12.50
49	South Dakota.....	24.47	11.02	21.43	29.90	42.82	44.71	19.97	31.04	29.57
50	Tennessee.....	16.88	6.81	12.98	18.10	24.88	24.50	13.19	25.30	19.40
51	Texas.....	17.31	9.09	14.63	20.89	27.17	40.48	14.11	23.22	19.78
52	Utah.....	20.81	9.24	16.75	23.62	28.73	40.28	16.83	30.91	24.29
53	Vermont.....	20.98	5.57	13.47	22.84	50.53	17.14	12.95	28.65	21.78
54	Virginia.....	20.40	7.86	16.83	27.00	36.61	26.60	14.30	23.56	19.85
55	Washington.....	23.90	8.46	17.74	26.86	36.33	36.03	18.26	38.01	29.50
56	West Virginia.....	21.97	8.22	17.83	27.16	40.53	30.18	16.44	27.70	24.31
57	Wisconsin.....	20.25	6.59	15.69	26.15	38.30	26.70	15.87	29.69	25.05
58	Wyoming.....	23.22	14.11	23.26	30.39	40.06	69.12	22.82	39.44	32.39

ON FARMS AND RANGES, JUNE 1, 1900, BY STATES AND TERRITORIES.

HORSES.				MULES.				Asses and burros, all ages.	SHEEP.				Swine, all ages.	Goats, all ages.	1
All horses.	Colts under 1 year.	Colts 1 and under 2 years.	Horses 2 years and over.	All mules.	Colts under 1 year.	Colts 1 and under 2 years.	Mules 2 years and over.		All sheep.	Lambs under 1 year.	Ewes 1 year and over.	Rams and wethers 1 year and over.			
\$49.07	\$19.69	\$33.39	\$58.02	\$60.17	\$26.77	\$42.07	\$64.81	\$60.92	\$2.76	\$1.94	\$8.18	\$3.36	\$3.69	\$1.75	
72.60	32.02	56.28	74.97	75.22	38.24	58.38	78.35	94.36	8.17	2.42	3.64	3.92	5.60	4.71	2
55.93	23.42	40.74	58.83	68.62	29.93	50.87	69.89	93.97	2.51	2.25	2.78	2.32	2.29	0.85	3
52.69	22.09	37.76	56.81	56.67	28.51	42.65	64.35	111.68	2.97	1.94	3.57	3.88	4.15	3.28	4
38.29	18.03	26.86	40.95	59.23	25.46	40.44	63.40	72.37	2.33	2.08	2.44	2.45	2.47	1.33	5
29.01	9.84	16.89	33.20	49.85	19.99	34.68	54.78	14.15	2.70	1.82	3.06	3.48	4.26	2.38	6
51.79	23.33	38.12	54.41	68.23	28.59	49.75	70.07	74.12	1.64	1.19	1.64	1.75	2.03	0.80	7
93.00			93.00										10.00		8
13.61	4.35	6.86	17.50	30.30	16.34	24.25	33.40	6.95	2.06	1.36	2.35	2.27	4.45	1.71	9
40.08	17.19	26.92	42.65	57.08	24.04	39.73	60.16	89.63	1.70	1.40	1.84	1.92	1.74	1.13	10
42.36	18.87	30.99	44.59	54.39	20.81	38.33	58.12	65.87	2.73	1.88	3.03	3.64	4.14	2.41	11
30.90	12.32	19.38	34.96	47.99	24.98	38.10	53.31	9.43	2.73	1.65	3.14	3.89	4.77	1.95	12
72.54	41.35	63.53	78.06	81.78	33.00	67.04	87.73	32.50	3.72	2.89	4.15	4.81	7.04	6.21	13
59.47	26.48	44.37	62.57	72.79	50.98	62.04	74.04	56.33	3.70	3.77	3.60	4.32	5.02	3.63	14
67.17	36.88	61.46	67.93	74.69			74.69						5.11	4.33	15
53.49	18.83	34.43	56.60	78.67	32.47	58.63	79.60	35.15	1.92	1.49	1.95	2.09	1.51	0.75	16
55.67	24.81	41.89	57.24	69.72	32.19	62.12	70.46	88.34	1.30	1.09	1.36	1.38	1.81	0.73	17
34.02	8.54	28.97	36.27	90.76	20.10	46.64	94.69	9.29	1.31	0.66	1.42	1.52	6.15	1.12	18
24.24	7.48	13.36	28.29	39.34	22.74	31.63	44.06	29.65	2.66	1.36	3.07	3.37	4.21	4.50	19
51.62	23.32	39.66	55.56	59.53	29.05	44.39	65.89	88.24	3.60	2.47	4.27	4.63	3.99	2.25	20
54.07	24.95	43.15	57.36	55.71	30.20	44.31	60.81	115.22	3.33	2.30	4.02	4.81	3.67	1.99	21
28.59	10.62	16.83	31.88	50.63	21.57	34.43	54.98	93.45	2.23	1.64	2.37	2.57	2.93	2.05	22
55.81	24.02	40.12	61.15	64.34	31.96	49.04	71.74	82.30	3.74	2.37	4.53	4.89	4.50	3.54	23
44.67	20.20	31.89	48.06	54.32	27.57	40.99	64.22	113.06	3.18	2.04	3.67	3.81	4.75	3.90	24
54.35	40.10	57.32	65.11	58.25	29.01	44.57	64.23	87.32	3.23	3.06	3.35	3.50	2.65	1.65	25
34.08	12.31	22.71	36.64	73.88	22.77	47.19	75.99	75.67	1.51	0.98	1.62	1.78	1.90	0.93	26
66.41	27.71	50.96	68.12	55.33	29.08	46.19	66.19	16.02	2.66	2.17	2.95	3.66	6.53	3.91	27
62.77	25.84	45.80	66.61	79.64	37.51	58.46	82.21	98.70	3.64	3.37	3.78	4.45	4.15	3.41	28
77.65	59.05	69.68	78.11	69.41	39.65	54.81	79.18	33.51	3.68	2.76	4.12	4.88	6.96	5.73	29
61.22	24.07	44.56	64.68	54.35	25.79	41.79	69.53	33.61	2.61	1.73	3.14	4.13	3.94	3.50	30
60.67	21.33	39.53	65.47	58.35	34.19	48.00	62.15	71.27	2.95	1.78	3.65	4.23	4.07	3.38	31
47.46	21.48	34.21	50.67	65.94	29.04	49.36	68.43	122.17	1.71	1.41	1.78	1.86	2.30	0.82	32
43.53	21.95	32.75	45.82	54.61	27.53	41.18	63.60	126.68	3.08	2.36	3.51	3.83	3.65	2.65	33
23.60	9.16	13.71	26.34	37.65	22.23	29.75	44.55	125.06	2.94	1.95	3.37	3.49	5.69	4.59	34
46.10	19.24	31.70	50.44	57.53	29.49	43.97	63.79	159.50	3.28	1.88	3.95	4.31	4.52	3.80	35
15.85	5.22	9.29	19.03	30.66	14.36	20.84	38.81	112.34	2.64	1.32	2.99	3.43	4.99	2.79	36
70.00	33.97	58.86	70.81	62.60	19.33	48.46	72.36	57.96	2.94	2.33	3.29	3.86	6.98	4.40	37
80.64	33.93	78.71	80.64	72.43	42.45	64.67	73.43	57.09	4.24	3.91	4.43	5.80	5.23	4.30	38
16.93	5.95	10.72	19.85	34.48	14.33	24.22	38.80	4.06	2.17	1.51	2.40	2.99	4.00	2.11	39
76.34	32.50	58.97	78.77	69.17	32.09	50.33	72.76	23.99	3.39	2.65	3.97	5.46	5.61	4.90	40
55.27	22.68	39.46	57.18	63.99	26.63	45.79	65.70	84.19	1.53	1.34	1.63	1.70	1.94	0.89	41
63.14	19.10	35.08	70.37	69.24	28.47	49.48	73.72	137.82	2.91	1.65	3.51	3.71	4.35	4.73	42
57.12	25.23	45.11	60.52	56.12	31.78	45.60	59.66	75.92	2.73	1.73	3.25	3.22	3.70	3.13	43
31.96	15.72	23.12	38.40	50.80	25.88	37.40	56.69	81.64	2.52	1.72	2.81	3.13	4.07	2.88	44
30.05	10.23	17.34	33.76	42.74	19.14	29.60	50.06	139.09	2.49	1.73	2.83	3.02	3.76	3.42	45
69.29	28.26	62.30	72.69	76.40	40.10	58.35	70.60	39.16	3.03	2.32	3.45	3.49	5.26	4.07	46
86.12	52.09	76.98	86.55	74.61		32.50	76.94	42.00	3.68	3.31	3.83	4.88	7.87	5.70	47
61.31	25.33	50.69	63.64	71.70	36.42	60.76	72.16	90.50	1.56	1.33	1.64	1.69	2.28	0.92	48
41.78	14.87	26.00	47.29	50.79	26.77	40.62	56.55	97.54	3.14	1.77	3.80	4.17	4.30	5.16	49
55.35	27.32	42.99	59.01	63.87	29.36	44.79	70.85	79.50	2.33	2.07	2.55	2.66	2.45	1.50	50
27.18	11.53	16.77	29.50	49.52	19.97	31.27	53.47	62.94	2.11	1.33	2.20	2.57	2.35	1.47	51
29.31	10.73	18.30	33.26	27.81	13.71	25.72	33.49	17.52	2.69	1.33	3.01	3.40	4.46	1.89	52
62.19	26.45	47.18	64.05	66.00	34.61	48.46	71.03	36.60	2.97	1.93	3.55	4.20	6.62	4.35	53
51.34	22.95	38.44	54.46	61.97	29.15	45.92	65.97	126.77	3.02	2.72	3.21	3.55	2.72	1.89	54
35.04	11.34	16.59	40.74	51.37	24.19	40.35	59.43	103.01	2.64	1.96	3.01	3.43	4.58	3.74	55
56.03	22.17	38.69	59.96	63.87	34.17	48.30	67.33	131.33	2.75	2.19	3.13	3.21	3.14	2.51	56
61.75	23.26	44.57	65.97	64.23	36.14	47.99	67.74	19.87	2.69	1.71	3.32	4.22	3.76	3.29	57
23.79	8.64	15.04	28.10	42.06	17.85	39.54	49.33	24.24	3.20	2.03	3.76	4.01	5.05	4.46	58

TABLE 3.—NUMBER OF SPECIFIED DOMESTIC ANIMALS, JUNE 1, 1900, ON FARMS AND RANGES,

STATES AND TERRITORIES.	All inclosures reporting domestic animals. ¹	NEAT CATTLE.									
		All inclosures reporting. ¹	Total number.	Calves under 1 year.	Steers 1 and under 2 years.	Steers 2 and under 3 years.	Steers 3 years and over.	Bulls 1 year and over.	Heifers 1 and under 2 years.	Dairy cows 2 years and over.	Other cows 2 years and over.
1 The United States ² . . .	7,399,106	5,682,787	69,488,758	15,595,245	7,023,781	5,254,880	3,191,881	1,829,572	7,268,488	18,112,707	11,667,909
2 North Atlantic division.	1,115,187	783,342	6,570,811	1,279,582	191,991	125,095	70,847	204,785	806,858	3,665,685	226,018
8 South Atlantic division.	1,081,944	793,197	4,580,168	967,204	379,591	293,588	270,021	104,153	440,462	1,476,787	648,412
4 North Central division.	2,986,696	2,842,509	31,289,294	7,392,303	3,723,417	2,856,727	1,209,185	527,542	3,852,305	8,927,882	3,299,933
5 South Central division.	1,866,917	1,420,038	18,314,662	4,160,299	1,802,407	1,807,841	1,215,140	325,285	1,746,082	3,103,169	4,654,939
6 Western division.	846,841	248,211	8,581,897	1,778,840	911,260	661,810	418,876	167,026	908,793	935,148	2,805,659
7 Alabama	238,955	185,711	849,470	225,856	54,708	39,251	44,845	18,594	85,945	302,129	78,147
8 Alaska	5	4	18					1		18	
9 Arizona	7,671	4,216	744,873	135,503	65,304	42,180	30,626	20,451	78,564	18,638	368,607
10 Arkansas	193,540	148,120	940,275	267,341	84,978	38,602	14,261	13,631	106,787	334,128	80,547
11 California	110,012	67,959	1,479,218	333,908	135,765	110,174	92,384	25,201	149,656	326,766	305,434
12 Colorado	42,006	27,144	1,453,971	271,770	204,950	138,004	64,656	26,609	158,190	108,697	486,086
13 Connecticut	45,126	26,891	225,032	37,919	3,468	3,421	7,413	5,044	26,963	132,521	8,288
14 Delaware	14,035	8,744	55,420	9,427	1,052	981	1,361	1,666	5,425	33,645	1,878
15 District of Columbia	4,144	582	2,077	85	5	2	2	23	104	1,809	47
16 Florida	45,028	30,005	765,563	141,679	68,090	47,263	45,778	19,514	71,362	84,274	287,708
17 Georgia	245,498	176,188	937,377	220,043	63,746	36,877	32,885	25,286	95,658	296,962	165,970
18 Hawaii	1,566	436	102,908	17,617	15,076	10,819	8,128	880	9,433	4,028	32,948
19 Idaho	20,588	15,747	369,217	87,722	39,977	27,942	10,651	6,352	40,805	54,520	101,248
20 Illinois	400,444	284,978	3,210,044	733,542	366,332	305,040	120,799	61,814	335,936	1,064,491	231,040
21 Indiana	306,191	230,261	1,737,097	433,858	206,630	146,056	36,369	23,834	135,146	611,772	89,442
22 Indian Territory	54,839	38,470	1,519,259	242,631	156,424	194,686	354,964	12,332	101,268	110,362	337,592
23 Iowa	321,344	261,698	5,447,510	1,299,294	733,505	606,636	176,158	93,491	595,389	1,479,676	463,861
24 Kansas	230,374	187,024	4,552,642	931,630	562,944	534,206	434,899	62,898	450,366	714,196	861,508
25 Kentucky	263,255	222,480	1,119,739	256,999	142,888	110,254	50,958	13,067	105,906	387,608	52,059
26 Louisiana	131,858	77,708	699,631	177,205	58,962	30,964	29,706	11,160	63,069	197,264	126,301
27 Maine	79,164	60,339	354,470	63,316	15,904	11,330	11,610	7,077	47,056	135,548	12,629
28 Maryland	78,991	47,031	306,710	56,629	13,927	14,234	14,742	10,144	29,691	167,566	9,777
29 Massachusetts	88,342	40,459	304,395	45,026	2,612	1,785	2,069	7,266	35,732	199,452	10,463
30 Michigan	269,836	211,729	1,425,700	331,921	157,331	50,140	4,737	19,577	163,497	601,844	46,603
31 Minnesota	200,615	170,767	1,918,737	571,983	163,103	59,340	9,437	42,756	213,340	739,633	69,095
32 Mississippi	227,523	161,423	911,375	243,536	66,151	36,856	46,558	18,037	92,500	316,217	86,976
33 Missouri	363,234	238,076	3,062,859	646,727	339,129	367,163	159,539	44,368	315,671	814,578	325,634
34 Montana	18,686	13,605	974,845	183,334	113,520	113,575	35,559	14,594	98,253	48,317	312,193
35 Nebraska	159,332	131,697	3,220,242	760,127	402,851	319,028	123,939	62,213	347,335	538,856	675,893
36 Nevada	3,246	2,221	386,249	81,257	41,155	29,541	12,888	8,706	45,015	14,178	163,514
37 New Hampshire	89,861	26,405	231,871	40,761	9,119	7,047	7,639	5,064	29,978	118,761	13,512
38 New Jersey	74,123	36,362	237,339	40,923	1,691	1,101	4,526	8,607	24,351	167,799	8,391
39 New Mexico	15,624	6,976	996,790	189,631	89,633	32,995	19,977	27,648	114,406	18,120	504,280
40 New York	345,810	232,339	2,651,944	513,103	87,176	26,367	13,400	35,657	333,930	1,537,921	99,280
41 North Carolina	239,604	175,677	645,417	146,014	44,623	27,001	31,380	17,931	69,707	246,765	61,956
42 North Dakota	49,873	41,670	667,087	153,149	92,315	70,372	25,699	10,402	69,827	131,119	108,704
43 Ohio	396,959	293,048	2,117,925	500,751	225,232	146,059	28,761	39,622	220,178	868,832	88,440
44 Oklahoma	67,330	52,888	1,716,749	301,473	160,148	191,437	306,716	22,924	125,439	169,613	438,994
45 Oregon	46,425	38,332	715,599	171,443	69,345	44,071	21,692	13,799	79,317	132,669	133,263
46 Pennsylvania	334,332	269,232	1,997,192	430,674	110,468	65,684	18,102	69,940	230,943	1,022,074	50,207
47 Rhode Island	12,366	5,256	37,677	5,444	154	140	740	834	3,942	25,027	1,396
48 South Carolina	157,431	109,954	358,157	90,314	15,441	8,445	19,731	10,269	34,767	136,333	42,857
49 South Dakota	63,063	54,712	1,562,175	315,767	216,510	179,564	77,700	23,317	163,331	230,024	270,962
50 Tennessee	260,296	211,555	962,553	243,245	112,551	69,469	21,161	12,149	96,330	351,949	50,699
51 Texas	429,271	320,633	9,595,611	2,192,003	965,002	596,322	345,976	203,341	963,838	924,899	3,403,625
52 Utah	28,346	23,855	356,621	81,532	32,334	17,633	6,177	5,513	41,193	74,234	97,400
53 Vermont	46,003	36,009	510,341	102,416	11,404	8,220	5,238	15,246	69,313	276,592	21,852
54 Virginia	195,115	151,709	853,903	166,609	92,339	87,474	30,038	11,205	72,903	301,905	41,315
55 Washington	45,567	36,726	414,044	109,406	40,072	24,526	9,307	7,610	45,337	119,041	58,695
56 West Virginia	107,043	93,357	655,544	130,604	30,313	71,261	44,049	8,125	60,340	217,533	36,909
57 Wisconsin	224,831	186,949	2,358,276	623,554	206,885	74,123	11,108	48,255	237,239	1,032,311	69,251
58 Wyoming	8,775	5,880	639,970	127,275	78,605	30,669	60,014	10,538	68,007	19,923	244,939

¹ Consisting of farms, ranges, stockyards, livery and private stables, manufacturing, lumbering, and mining plants, and all other establishments, rural or urban, reporting.

AND IN BARN AND INCLOSURES, ELSEWHERE, BY STATES AND TERRITORIES.

HORSES.					MULES.					ASSES AND BURROS.		
All inclo- sures reporting. ¹	Total number.	Colts under 1 year.	Colts 1 and under 2 years.	2 years and over.	All inclo- sures reporting. ¹	Total number.	Colts un- der 1 year.	Colts 1 and under 2 years.	2 years and over.	All inclo- sures reporting. ¹	Total number, all ages.	
5,905,679	21,216,888	1,848,298	1,478,149	18,390,441	1,584,540	8,445,029	284,858	284,258	2,925,923	40,804	111,450	1
958,564	2,579,523	60,141	86,422	2,432,960	28,672	73,511	1,692	4,429	67,890	1,017	2,345	2
614,888	1,229,620	57,833	62,455	1,109,882	355,825	581,888	9,476	20,980	550,932	1,782	2,976	8
2,086,375	11,116,235	742,489	818,374	9,555,872	801,966	793,531	99,596	104,980	589,005	10,659	23,145	4
1,332,040	3,756,044	255,581	246,755	3,253,708	831,711	1,857,990	118,261	141,769	1,602,960	18,707	44,098	5
812,472	2,522,479	231,875	262,621	2,027,988	21,605	132,103	10,769	11,721	109,623	8,398	36,848	6
109,483	171,318	8,997	8,184	154,187	122,854	199,482	4,752	8,009	186,671	1,012	2,019	7
3	5			5								8
7,054	181,458	19,146	22,394	89,913	1,044	4,808	451	559	3,798	1,134	6,091	9
135,211	279,100	17,350	14,791	246,959	91,603	182,384	8,864	11,122	162,898	1,512	2,733	10
100,917	515,464	23,773	25,266	466,425	10,549	88,252	5,098	6,553	76,601	1,230	2,787	11
38,117	273,309	24,148	27,863	221,293	2,762	9,196	912	896	7,888	1,445	7,542	12
40,896	93,235	475	1,584	91,176	160	325	20	28	277	38	42	13
12,529	36,424	1,618	1,933	32,873	2,304	5,042	107	289	4,646	10	19	14
3,962	12,453	26	72	12,355	89	357			357	1	1	15
31,353	50,396	2,325	2,241	45,830	9,367	16,922	100	392	16,424	51	157	16
104,185	148,511	4,148	4,750	139,613	135,580	214,921	1,520	5,130	208,271	366	645	17
1,387	12,982	379	1,522	11,081	261	6,506	69	424	6,013	291	1,438	18
19,209	132,328	18,613	21,150	142,565	729	2,300	214	1,807	2,800	110	591	19
361,874	1,593,138	110,621	117,704	1,364,813	52,261	131,112	13,917	13,333	103,862	1,328	2,958	20
276,910	879,944	54,137	56,302	769,455	30,938	71,140	7,250	7,414	55,476	698	1,284	21
48,507	237,834	20,810	19,835	197,189	21,237	60,146	4,385	5,170	50,591	696	1,438	22
293,836	1,547,348	127,920	136,317	1,283,111	24,544	60,985	6,591	7,078	47,316	855	2,335	23
210,930	1,072,651	74,530	79,977	918,144	43,403	122,729	19,061	13,559	85,109	2,263	4,400	24
205,409	497,245	27,063	25,533	444,644	88,093	198,110	20,901	21,152	156,057	2,364	5,633	25
97,736	220,717	14,066	12,610	194,041	55,934	150,982	2,404	6,329	142,249	439	953	26
69,269	140,310	2,990	4,120	133,200	178	403	100	22	281	33	66	27
60,533	188,723	9,242	10,218	169,268	7,833	19,734	409	1,204	18,121	85	141	28
81,256	203,653	940	2,517	205,196	270	788	61	29	698	73	106	29
240,930	689,093	31,901	39,258	617,939	1,493	3,296	350	193	2,758	85	134	30
178,236	732,129	46,620	52,407	633,102	4,113	9,166	742	874	7,550	132	216	31
136,239	245,044	17,490	14,861	212,693	121,379	218,621	7,057	12,440	193,524	1,112	2,017	32
316,220	1,096,550	59,476	64,323	972,751	105,436	296,261	41,686	47,526	207,049	3,948	9,435	33
17,271	347,247	40,413	45,500	261,334	494	3,090	610	410	2,070	60	145	34
146,997	863,939	68,293	74,353	721,293	22,807	57,924	6,599	6,831	44,494	652	1,040	35
3,026	83,597	10,850	11,085	61,662	406	3,132	607	440	2,085	97	297	36
36,374	77,233	773	1,607	74,853	60	127	12	13	102	25	38	37
66,422	177,215	1,933	3,209	172,073	2,753	6,011	68	333	5,610	89	121	38
13,926	140,378	17,185	17,064	106,629	1,886	5,943	578	645	4,725	3,687	17,469	39
314,107	934,375	20,833	31,225	882,267	2,062	5,179	199	196	4,784	298	750	40
116,795	174,933	5,935	6,130	162,368	90,065	138,736	3,116	5,675	129,995	612	917	41
46,949	376,062	29,040	32,529	314,493	2,134	7,115	429	514	6,172	80	114	42
356,843	1,068,170	57,161	68,899	942,110	9,373	21,543	1,434	1,422	18,637	300	462	43
62,412	319,319	27,807	23,612	263,400	22,233	57,416	6,399	6,339	44,178	822	1,650	44
39,760	307,959	26,424	27,894	253,641	1,606	7,956	1,097	1,021	5,338	186	350	45
296,598	811,236	29,425	37,955	743,856	18,002	60,269	1,194	3,787	55,288	429	1,177	46
11,732	81,370	109	219	31,042	28	47		2	45	5	6	47
64,246	88,274	2,781	3,285	82,208	76,533	120,201	552	3,122	116,527	178	301	48
60,010	505,713	47,968	53,414	404,331	3,006	7,313	935	761	5,617	153	238	49
179,345	391,604	24,652	23,752	343,200	116,239	264,248	24,942	28,986	210,321	4,059	9,395	50
357,193	1,393,863	97,846	98,622	1,197,395	192,429	526,651	32,957	41,723	451,971	6,691	18,855	51
24,241	123,886	11,672	13,302	103,412	741	2,277	473	400	1,404	237	927	52
41,910	105,896	2,613	3,986	99,297	159	362	83	19	305	17	30	53
138,550	325,616	19,692	20,690	283,264	26,518	50,576	2,945	4,257	43,374	819	621	54
36,659	266,444	22,740	30,698	213,006	906	3,097	444	332	2,321	90	133	55
32,635	203,285	12,096	13,136	178,053	7,036	14,849	721	911	13,217	110	174	56
196,530	641,493	34,772	42,391	563,880	2,403	4,947	552	425	3,970	165	529	57
12,292	144,914	16,911	19,905	108,098	432	2,047	210	251	1,586	122	466	58

² Data for Alaska and Hawaii included in totals for United States, but not in those for the five geographical divisions.
³ Including 80 Chinese buffaloes and 47 working bullocks.

TABLE 3.—NUMBER OF SPECIFIED DOMESTIC ANIMALS, JUNE 1, 1900, ON FARMS AND RANGES, AND IN BARN AND INCLOSURES, ELSEWHERE, BY STATES AND TERRITORIES—Continued.

STATES AND TERRITORIES.	SHEEP.					SWINE.		GOATS.	
	All inclo- sures reporting. ¹	Total number.	Lambs un- der 1 year.	Ewes 1 year and over.	Rams and wethers 1 year and over.	All inclo- sures reporting. ¹	Total number, all ages.	All inclo- sures reporting. ¹	Total number, all ages.
The United States ²	771,708	61,827,112	21,719,939	32,058,920	8,058,253	4,798,850	64,694,222	99,701	1,949,605
North Atlantic division.....	122,506	4,296,629	1,723,479	2,295,543	277,607	555,649	2,601,875	9,444	18,670
South Atlantic division.....	107,233	2,714,744	996,762	1,389,605	323,377	888,783	5,791,966	21,962	212,680
North Central division.....	361,395	16,285,035	6,147,034	8,735,900	1,402,101	1,907,647	41,800,299	19,484	130,281
South Central division.....	153,884	4,908,390	1,556,290	2,467,111	894,989	1,367,682	13,480,060	38,923	968,953
Western division.....	26,725	83,530,216	11,278,882	17,119,115	5,132,219	128,513	1,511,955	9,809	618,368
Alabama.....	18,113	323,457	89,041	161,211	78,205	184,657	1,474,347	9,465	122,175
Alaska.....						1	10		
Arizona.....	612	924,884	256,308	452,331	216,245	1,139	18,315	458	99,994
Arkansas.....	18,500	259,595	89,030	132,079	38,486	146,279	1,766,317	4,899	53,616
California.....	3,860	2,581,684	842,900	1,346,103	392,581	29,277	622,365	2,019	112,027
Colorado.....	1,302	2,045,677	692,272	1,090,001	263,304	11,611	104,245	806	41,379
Connecticut.....	1,237	37,136	14,024	20,745	2,367	15,456	51,337	225	550
Delaware.....	468	11,776	4,812	6,360	604	9,805	50,862	90	205
District of Columbia.....	21	30	14	15	1	141	1,134	53	73
Florida.....	887	125,406	21,979	56,231	47,196	82,089	479,899	2,400	45,053
Georgia.....	10,990	342,040	78,531	165,217	98,292	187,612	1,464,455	7,325	86,670
Hawaii.....	25	102,098	17,492	61,646	22,960	625	8,057	19	653
Idaho.....	1,998	3,122,576	1,156,522	1,611,395	354,659	10,664	117,547	71	4,500
Illinois.....	25,849	1,085,472	411,967	577,901	95,604	246,087	6,032,412	3,449	11,861
Indiana.....	48,360	1,748,311	733,523	944,077	70,711	196,238	3,840,784	2,032	6,281
Indian Territory.....	533	17,343	4,510	8,386	4,447	89,538	674,209	802	10,949
Iowa.....	18,997	1,059,575	399,830	577,608	32,077	227,757	9,851,929	3,473	42,275
Kansas.....	2,155	264,045	82,874	134,412	40,759	154,976	3,663,029	1,197	18,899
Kentucky.....	51,059	1,300,332	562,178	649,556	68,798	194,018	2,008,989	2,510	12,603
Louisiana.....	5,885	221,943	50,956	115,374	55,613	76,790	812,817	3,648	40,399
Maine.....	18,962	427,209	169,048	245,537	11,724	40,655	88,563	102	815
Maryland.....	6,453	194,076	80,208	103,139	10,729	50,939	359,312	497	1,563
Massachusetts.....	1,539	54,818	19,307	31,786	8,725	20,118	96,144	479	1,747
Michigan.....	63,739	2,763,083	1,123,441	1,611,712	117,930	152,527	1,188,108	956	3,464
Minnesota.....	28,327	594,006	231,746	332,722	29,538	120,435	1,458,651	663	4,100
Mississippi.....	14,593	315,751	76,921	163,786	75,044	163,808	1,813,624	5,713	57,283
Missouri.....	38,221	1,065,920	424,315	594,967	76,638	244,881	4,634,342	3,344	25,475
Montana.....	1,500	6,170,530	1,955,295	2,995,809	1,219,476	5,365	50,429	66	1,723
Nebraska.....	2,885	517,299	175,456	284,474	87,369	115,441	4,221,094	685	2,733
Nevada.....	268	887,110	313,306	434,501	133,713	1,302	15,665	40	4,662
New Hampshire.....	4,260	105,702	40,049	61,620	4,033	13,776	56,970	87	253
New Jersey.....	1,671	58,031	21,496	34,152	2,333	23,401	201,341	1,275	2,449
New Mexico.....	2,570	4,902,547	1,566,750	2,852,657	433,140	4,949	21,866	3,239	236,362
New York.....	41,146	1,763,794	765,262	950,045	47,837	169,033	723,315	2,633	4,362
North Carolina.....	29,120	303,063	93,416	164,721	44,926	200,168	1,340,478	5,693	44,025
North Dakota.....	5,017	632,391	230,658	340,497	111,236	27,771	194,314	159	1,180
Ohio.....	74,065	4,030,021	1,374,630	2,094,420	500,971	242,041	3,285,789	1,763	6,681
Oklahoma.....	248	71,393	22,337	37,656	10,905	44,635	590,980	302	3,377
Oregon.....	6,731	3,042,767	1,079,559	1,481,172	432,036	23,996	236,541	2,207	103,995
Pennsylvania.....	44,632	1,541,133	574,043	776,252	190,838	234,055	1,265,327	4,446	8,745
Rhode Island.....	341	11,285	4,612	5,940	733	2,402	12,868	63	38
South Carolina.....	3,967	72,060	19,215	40,695	12,150	115,909	631,025	4,004	27,257
South Dakota.....	6,447	775,664	263,145	422,211	85,308	39,637	832,253	291	2,969
Tennessee.....	38,310	499,277	189,456	257,602	52,219	206,452	2,059,896	4,142	27,341
Texas.....	6,588	1,898,794	451,361	931,161	516,272	307,505	2,773,881	7,442	640,710
Utah.....	3,326	3,821,338	1,265,302	1,896,311	659,725	17,671	71,768	105	1,469
Vermont.....	8,618	297,521	114,733	168,366	13,917	26,753	100,510	33	151
Virginia.....	24,906	695,614	301,732	354,985	38,397	160,400	999,272	1,560	6,315
Washington.....	2,904	930,983	372,199	459,755	99,034	20,563	187,104	205	3,003
West Virginia.....	30,421	970,679	396,855	493,242	75,532	31,600	465,029	340	1,519
Wisconsin.....	47,333	1,679,243	690,449	920,339	67,960	140,856	2,042,094	1,472	5,404
Wyoming.....	1,104	5,099,765	1,772,469	2,493,990	323,306	1,976	15,610	49	2,669

¹ Consisting of farms, ranges, stockyards, livery and private stables, manufacturing, lumbering, and mining plants, and all other establishments, rural or urban, reporting.

² Data for Alaska and Hawaii included in totals for United States, but not in those for the five geographical divisions.

CENSUS BULLETIN.

No. 157.

WASHINGTON, D. C.

April 16, 1902.

MANUFACTURES.

NEW JERSEY.

HON. WILLIAM R. MERRIAM,

Director of the Census.

SIR: I transmit herewith, for publication in bulletin form, the statistics of manufacturing and mechanical industries for the state of New Jersey for the census year 1900, taken in accordance with the provisions of section 7 of the act of March 3, 1890. This section requires that "The schedules of inquiries relating to the products of manufacturing and mechanical establishments shall embrace the name and location of each establishment; character of organization, whether individual, cooperative, or other form; date of commencement of operations; character of business or kind of goods manufactured; amount of capital invested; number of proprietors, firm members, copartners, or officers, and the amount of their salaries; number of employees, and the amount of their wages; quantity and cost of materials used in manufactures; amount of miscellaneous expenses; quantity and value of products; time in operation during the census year; character and quantity of power used; and character and number of machines employed."

In each of the above particulars the requirements of the law have been observed, but certain of the data thus elicited are reserved for publication in the final volumes.

There were 44 cities and towns in the state withdrawn from the enumerators and their manufacturing statistics collected by special agents, in accordance with the further provision of section 7 of the census act. Wherever the phrase "urban manufactures" is used in this bulletin, it applies only to those cities and towns which were withdrawn from the enumerators and committed to special agents, and only to manufacturing establishments within the corporate limits of such places.

Fourteen cities in New Jersey contain a population exceeding 20,000 each: Atlantic City, Bayonne, Camden, East Orange, Elizabeth, Hoboken, Jersey City, Newark, New Brunswick, Orange, Passaic, Paterson, Trenton, and West Hoboken. Atlantic City is not, however, a manufacturing city, and therefore was not withdrawn from the enumerators. The manufacturing statistics of the 13 other cities in the above list are presented by specified industries,

and the statistics of Camden, Elizabeth, Hoboken, Jersey City, Newark, Paterson, and Trenton are presented in comparison with the returns of the Eleventh Census. The statistics of Bayonne, East Orange, New Brunswick, Orange, Passaic, and West Hoboken were not shown separately in 1890, and comparisons with that year are, therefore, not possible in these cases.

Mr. William Stainsby, Chief of the New Jersey Bureau of Labor Statistics, rendered valuable assistance in the preparation of the text for the accompanying report.

The statistics of New Jersey are presented in 9 tables: Table 1 showing comparative figures for the state at the several censuses; Table 2 showing all the industries of the state divided between hand trades and the manufactures proper, and also the statistics of governmental establishments, educational, eleemosynary, and penal institutions, and establishments with a product of less than \$500, which three latter classes were not reported at previous censuses; Table 3 showing the statistics of the 15 leading industries of the state for 1890 and 1900; Table 4 showing the totals for the cities of Camden, Elizabeth, Hoboken, Jersey City, Newark, Paterson, and Trenton at the censuses of 1890 and 1900; Table 5 showing the urban manufactures of the state in comparison with the totals for the entire state and the state exclusive of the cities and towns withdrawn from the enumerators; Table 6 showing the statistics for the state by counties; Table 7 showing the statistics for the state by specified industries; Table 8 showing the statistics for the cities of Bayonne, Camden, East Orange, Elizabeth, Hoboken, Jersey City, Newark, New Brunswick, Orange, Passaic, Paterson, Trenton, and West Hoboken by specified industries; and Table 9 showing the totals for all industries in each of the cities and towns withdrawn from the enumerators (exclusive of those shown in Table 8).

Table 1 shows the growth of manufactures in New Jersey for the half century which terminates with the Twelfth Census. The manufacturing statistics of the censuses prior to 1850 were too imperfect and fragmentary in character to make it proper to reproduce them in such a table as a measure of industrial growth in the first half of the century. Owing to changes in the method of tak-

ing the census, comparisons between the earlier and later decades, represented in Table 1, should be drawn only in the most general way. Nevertheless, the rate of growth in New Jersey manufactures may be fairly inferred from the figures given.

In drafting the schedules of inquiry for the census of 1900 care was taken to preserve the basis of comparison with prior censuses. Comparison may be made safely with respect to all the items of inquiry except those relating to capital, salaried officials, clerks, etc., and their salaries, the average number of employees, and the total amount of wages paid. Live capital, that is, cash on hand, bills receivable, unsettled ledger accounts, raw materials, stock in process of manufacture, finished products on hand, and other sundries, was first called for at the census of 1890. No definite attempt was made, prior to the census of 1890, to secure a return of live capital invested.

Changes were made in the inquiries relating to employees and wages in order to eliminate defects found to exist on the form of inquiry adopted in 1890. At the census of 1890 the average number of persons employed during the entire year was called for, and also the average number employed at stated weekly rates of pay, and the average number was computed for the actual time the establishments were reported as being in operation. At the census of 1900 the greatest and least numbers of employees were reported, and also the average number employed during each month of the year. The average number of wage-earners (men, women, and children) employed during the entire year was ascertained by using 12, the number of calendar months, as a divisor into the total of the average numbers reported for each month. This difference in the method of ascertaining the average number of wage-earners during the entire year may have resulted in a variation in the number, and should be considered in making comparisons.

At the census of 1890 the number and salaries of proprietors and firm members actively engaged in the business or in supervision were reported, combined with clerks and other officials. In cases where proprietors and firm members were reported without salaries, the amount that would ordinarily be paid for similar services was estimated. At the census of 1900 only the number of proprietors and firm members actively engaged in the industry or in supervision was ascertained, and no salaries were reported for this class. It is therefore impossible to compare the number and salaries of salaried officials of any character for the two censuses.

Furthermore, the schedules for 1890 included in the wage-earning class, overseers, foremen, and superintendents (not general superintendents or managers), while the census of 1900 separates from the wage-earning class such salaried employees as general superintendents, clerks, and salesmen. It is possible and probable that this change in the form of the question has resulted in eliminating from the wage-earners, as reported by the present census, many high-salaried employees included in that group for the census of 1890.

In some instances, the number of proprietors and firm

members, shown in the accompanying tables, falls short of the number of establishments reported. This is accounted for by the fact that no proprietors or firm members are reported for corporations or cooperative establishments.

The reports show a capital of \$502,824,082 invested in manufactures and mechanical industries in the 15,481 establishments reporting for the state of New Jersey. This sum represents the value of land, buildings, machinery, tools, and implements, and the live capital utilized, but does not include the capital stock of any of the manufacturing corporations of the state. The value of the products is returned at \$611,748,933, to produce which involved an outlay of \$19,688,946 for salaries of officials, clerks, etc.; \$110,088,605 for wages; \$42,654,076 for miscellaneous expenses, including rent, taxes, etc.; and \$360,945,843 for materials used, mill supplies, freight, and fuel. It is not to be assumed, however, that the difference between the aggregate of these sums and the value of the products is, in any sense, indicative of the profits in the manufacture of the products during the census year. The census schedule takes no cognizance of the cost of selling manufactured articles, or of interest on capital invested, or of the mercantile losses incurred in the business, or of depreciation in plant. The value of the product given is the value as obtained or fixed at the shop or factory. This statement is necessary in order to avoid erroneous conclusions from the figures presented.

The value of products for the state of New Jersey, \$611,748,933, is the gross value, and not the net or true value. The difference between these two should be carefully noted. The gross value is found by adding the value of products in the separate establishments. But the finished product of one establishment is often the raw material for another. In such cases the value of the former reappears in the latter, and thus the original cost of certain materials may be included several times in the gross value. The net or true value is found by subtracting from the gross value the value of all materials purchased in a partly manufactured form. In this way the duplications in the gross value are eliminated.

At the census of 1890 the schedule was so framed that it was impossible to find the net or true value. In the present census the schedule asked for the value of the materials in two classes, those purchased in the crude state and those purchased in the partly manufactured form. From the answers to these questions the net or true value of products may be computed. Thus, for New Jersey, the gross value of products for 1900 was \$611,748,933. The value of materials purchased in a partly manufactured form was \$256,101,983. The difference, \$355,646,950, is the net or true value of products, and represents the value of all crude materials used, together with the increase in value resulting from the various processes of manufacture.

Very respectfully,



Chief Statistician for Manufactures.

NEW JERSEY.

Table 1 shows the manufacturing and mechanical industries of the state of New Jersey as returned at the censuses of 1850 to 1900, inclusive, with the percentages of increase for each decade. This table also presents the average number of wage-earners employed by manufac-

turing establishments, in comparison with the total population of the state, and the value of the land and buildings owned and reported by manufacturers as capital, in comparison with the assessed value of all real estate and improvements.

TABLE 1.—COMPARATIVE SUMMARY, 1850 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.						PER CENT OF INCREASE.				
	1900	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	15,481	9,225	7,128	6,636	4,173	4,207	67.8	29.4	7.4	59.0	10.8
Capital	\$502,824,082	\$250,805,745	\$106,226,593	\$79,606,719	\$40,521,048	\$22,293,258	100.5	136.1	83.4	95.5	81.8
Salaries of officials, clerks, etc., number	16,288	² 18,620	(3)	(3)	(3)	(3)	19.6	42.8	---	---	---
Salaries	\$19,688,946	² \$18,884,618	(3)	(3)	(3)	(3)	42.8	---	---	---	---
Wage-earners, average number	241,582	173,778	120,038	75,552	56,027	37,880	39.0	37.9	66.8	34.8	48.1
Total wages	\$110,088,605	\$82,944,118	\$46,083,045	\$32,648,409	\$16,277,337	\$9,364,740	32.7	30.0	41.1	100.6	73.8
Men, 16 years and over	181,879	131,810	86,787	53,115	43,198	29,068	88.4	51.4	49.3	34.5	48.6
Wages	\$94,463,105	\$72,393,325	(3)	(3)	(3)	(3)	30.6	---	---	---	---
Women, 16 years and over	51,661	37,095	27,099	11,198	12,829	5,762	39.3	36.9	142.0	12.7	46.4
Wages	\$14,281,265	\$9,815,208	(3)	(3)	(3)	(3)	45.5	---	---	---	---
Children, under 16 years	8,042	5,318	12,152	6,289	(3)	(3)	51.4	156.3	94.8	---	---
Wages	\$1,344,235	\$795,585	(3)	(3)	(3)	(3)	69.0	---	---	---	---
Miscellaneous expenses	\$12,654,076	\$18,458,052	(3)	(3)	(3)	(3)	181.1	---	---	---	---
Cost of materials used	\$360,945,848	\$189,365,740	\$156,285,779	\$103,415,245	\$41,429,100	\$22,011,871	90.6	14.6	59.8	149.6	88.2
Value of products, including custom work and repairing	\$611,748,933	\$354,878,571	\$254,380,236	\$169,237,732	\$76,306,104	\$39,851,256	72.5	39.4	50.8	121.8	91.5
Total population	1,883,669	1,444,933	1,181,116	906,096	672,085	489,555	30.4	27.7	24.8	34.8	37.8
Wage-earners engaged in manufactures	241,582	173,778	126,038	75,552	56,027	37,880	39.0	37.9	66.8	34.8	48.1
Per cent of total population	12.8	12.0	11.1	8.3	8.3	7.7	---	---	---	---	---
Assessed value of real estate	\$774,935,591	\$562,375,791	\$442,632,638	\$448,832,137	\$151,161,942	\$153,151,619	37.8	27.1	11.4	196.9	11.3
Value of land and buildings invested in manufactures ⁶	\$118,767,860	\$66,835,493	(3)	(3)	(3)	(3)	77.7	---	---	---	---
Per cent of assessed value	15.3	11.9	---	---	---	---	---	---	---	---	---

¹ Decrease.

² Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 7.)

³ Not reported separately.

⁴ Not reported.

⁵ As given in the Tenth Annual Report of the State Board of Taxation of the state of New Jersey, for the year ending October 31, 1900, page 11.

⁶ Does not include value of rented property.

Table 1 shows that there has been a large growth in the manufacturing and mechanical industries of New Jersey during the half century. The population during these years increased from 489,555 to 1,883,669, while the average number of wage-earners employed in manufacturing establishments increased from 37,880 to 241,582, embracing, in 1900, 12.8 per cent of the entire population, compared with 7.7 per cent in 1850. Probably the best indication of the importance of the wage-earning class is afforded by the greatest number employed at any one time during the year. In 1900 this was 307,933, or 16.3 per cent of the total population of the state. The greatest percentage of increase in the value of products, 121.8, is shown for the decade ending with 1870, but the greatest absolute increase, \$257,175,362, was between the years 1890 and 1900.

In the value of manufactured products New Jersey ranked sixth in the United States at the censuses of 1870, 1880, 1890, and 1900. Among the causes of the great development in productive industry, indicated in Table 1, are the exceptionally favorable geographical position of the state, and the transportation facilities furnished by the railroads which connect its manufacturing centers with the Hudson River, New York Bay, Staten Island Sound, and Raritan Bay. There are seven trunk-line railroad systems

in the state, all having terminals close to New York Bay, the total mileage in 1899 being 2,242 miles.¹ It is necessary to transport the coal needed for manufacturing over comparatively short distances, the center of the anthracite coal district of Pennsylvania being but about fifty miles from the western border of the state, and one hundred and twenty-five miles from the eastern border. Much of the pig iron used by manufacturers comes from Morris and Warren counties, in the northern part of the state.² Four railroad lines connect this region with the chief manufacturing centers. The industrial growth of the state has been stimulated also by the proximity to the markets of New York city on the east and Philadelphia on the west.

Table 2 divides the industries of the state between the hand trades and the manufactures proper. This table also gives the statistics for governmental establishments, educational, eleemosynary, and penal institutions, and establishments with a product of less than \$500; these were not reported at previous censuses, and therefore are omitted from the other tables and their use confined to Table 2.

¹ Interstate Commerce Commission, Statistics of Railways in the United States, 1899, page 12.

² Report of the New Jersey Bureau of Statistics, 1895, page 13.

TABLE 2.—SUMMARY FOR ALL ESTABLISHMENTS.

CLASSES.	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	COST OF MATERIALS USED.				Value of products, including custom work and repairing.
				Average number.	Total wages.		Total.	Purchased in raw state.	Purchased in partially manufactured form.	Fuel, freight, etc.	
Total	17,680	\$503,514,032	18,713	242,096	\$110,128,062	\$42,735,581	\$361,135,755	\$39,193,242	\$256,265,124	\$15,677,389	\$612,423,738
Hand trades ¹	7,180	17,812,747	7,939	22,685	12,581,411	3,064,681	19,636,815	258,141	19,043,102	335,572	45,837,913
Governmental establishments	2	4,750		4	2,204	804	5,380	4,295	720	865	11,061
Educational, eleemosynary, and penal institutions	5	78,844		66	10,482	2,211	21,818		12,636	9,182	56,636
Establishments with a product of less than \$500.	2,192	600,856	2,275	444	26,771	78,400	162,714	12,929	149,785		606,208
All other establishments	8,301	485,511,535	8,499	218,997	97,507,194	39,689,445	\$41,309,028	88,917,877	237,053,881	15,332,270	565,911,020

¹ Includes bicycle and tricycle repairing, 800; blacksmithing and wheelwrighting, 1,133; boots and shoes, custom work and repairing, 969; carpentering, 889; clothing, men's, custom work and repairing, 632; clothing, women's, dressmaking, 550; dyeing and cleaning, 40; furniture, cabinetmaking, repairing, and upholstering, 215; lock and gun smithing, 63; masonry, brick and stone, 297; millinery, custom work, 303; painting, house, sign, etc., 678; paper hanging, 66; plastering and stucco work, 34; plumbing, and gas and steam fitting, 639; sewing machine repairing, 12; taxidermy, 6; watch, clock, and jewelry repairing, 298.

Of the 17,680 establishments of all classes shown in this table, 9,372, or 53 per cent, were small shops included in the groups of "hand trades" and "establishments with a product of less than \$500." The value of the products of these establishments, consisting principally of the sums received for custom work and repairing, amounted to

\$46,444,121, or only 7.6 per cent of the total value of the products of the state.

In addition to the 17,680 active establishments in the state during the census year, with a capital of \$503,514,032, shown in Table 2, there were 92 idle establishments, with a capital of \$5,362,986, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Babbitt metal and solder	1	\$17,400	Ice, manufactured	1	\$39,500
Boots and shoes, factory product	1	18,800	Iron and steel	5	1,169,943
Boots and shoes, rubber	1	105,000	Leather, tanned, curried, and finished	3	25,300
Brick and tile	6	164,850	Lime and cement	1	500,000
Carpets and rugs, other than rag	2	24,000	Matches	1	20,000
Chemicals	1	30,225	Paving and paving materials	2	36,850
Electrical apparatus and supplies	2	365,000	Paper and wood pulp	2	48,852
Explosives	1	65,000	Pottery, terra cotta, and fire-clay products	5	120,967
Flouring and grist mill products	6	61,700	Saddlery and harness	1	13,500
Fruits and vegetables, canning and preserving	3	25,060	Shipbuilding, iron and steel	2	2,133,940
Glass	8	84,700	Silk and silk goods	11	57,810
Hats and caps, not including fur hats and wool hats	3	50,000	Worsted goods	1	63,539
Hosiery and knit goods	2	19,200	All other industries	21	46,840

TABLE 3.—COMPARATIVE SUMMARY OF FIFTEEN LEADING INDUSTRIES.

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Total for selected industries for state	1900	1,780	\$260,301,975	117,008	\$52,825,741	\$24,864,234	\$141,610,234	\$258,421,105
	1890	1,367	133,261,963	77,974	36,523,518	9,437,502	84,675,069	156,491,146
Increase, 1890 to 1900		413	127,040,007	39,034	16,302,223	15,426,732	56,935,215	101,929,959
Per cent of increase		30.2	95.3	50.1	44.6	163.5	67.2	65.1
Per cent of total of all industries in state	1900	11.5	51.8	48.4	48.0	58.8	39.2	42.2
	1890	14.8	53.1	44.9	44.0	51.1	44.7	44.1
Chemicals	1900	61	17,284,675	3,048	1,575,132	638,013	6,994,503	12,207,289
	1890	44	7,981,419	1,712	919,440	393,494	5,026,040	8,146,795
Electrical apparatus and supplies	1900	85	7,380,139	2,793	1,514,333	769,135	2,996,908	6,447,154
	1890	3	562,768	425	193,389	53,179	2,033,163	744,274
Foundry and machine shop products	1900	353	31,650,687	17,913	9,375,824	1,908,216	14,879,987	32,621,229
	1890	249	19,084,636	12,793	7,159,040	947,217	9,967,500	21,666,955
Glass	1900	26	5,397,662	5,333	2,462,745	241,655	1,488,700	5,093,822
	1890	34	3,744,894	5,633	2,730,100	116,009	1,310,953	5,218,152
Iron and steel	1900	25	19,971,609	8,238	3,892,941	1,146,984	16,310,425	24,381,699
	1890	28	11,547,362	5,150	2,546,791	634,903	7,031,046	11,018,575
Jewelry	1900	100	5,523,452	2,779	1,563,973	420,248	3,828,855	7,379,777
	1890	74	3,303,615	1,757	1,116,535	173,407	2,357,326	4,724,500
Leather, tanned, curried, and finished	1900	77	9,906,119	4,173	2,057,197	507,753	9,532,507	13,747,155
	1890	31	1,185,362	700	415,516	57,320	1,961,634	2,780,016
Liquors, malt	1900	45	26,330,466	1,723	1,360,915	6,733,772	2,732,420	14,336,456
	1890	34	10,184,540	1,174	949,661	2,490,157	3,592,491	10,018,393
Lumber, planing mill products, including sash, doors, and blinds	1900	113	3,985,044	1,993	1,060,680	186,678	2,902,997	5,107,217
	1890	101	2,761,927	1,655	970,463	126,174	2,996,817	4,869,372

TABLE 3.—COMPARATIVE SUMMARY OF FIFTEEN LEADING INDUSTRIES—Continued.

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Petroleum, refining	1900	4	\$23,332,426	2,951	\$1,768,768	\$551,211	\$26,710,213	\$29,649,460
	1890	4	16,500,730	2,610	1,469,588	241,188	16,474,022	20,711,826
Pottery, terra cotta, and fire-clay products	1900	81	15,324,966	8,117	3,841,404	792,475	2,884,059	8,940,723
	1890	60	5,473,332	4,425	2,354,333	467,998	1,866,884	5,165,537
Rubber and elastic goods	1900	37	6,078,155	2,609	1,150,503	409,202	5,695,006	8,453,274
	1890	12	1,458,691	926	392,080	128,186	1,157,124	2,135,705
Sewing machines and attachments	1900	4	4,817,666	4,701	2,809,523	108,801	2,717,907	6,643,348
	1890	3	5,237,855	3,931	2,071,833	288,620	761,365	4,177,330
Textiles:								
Total	1900	321	75,915,746	46,932	17,159,450	7,317,381	33,942,798	72,921,528
	1890	242	42,913,166	33,860	12,706,529	2,951,991	29,062,896	52,855,496
Carpets and rugs, other than rag	1900	18	1,487,031	1,171	379,423	45,610	867,959	1,522,827
	1890	6	724,393	579	137,354	30,502	430,917	817,242
Cotton goods, including cotton small wares	1900	25	14,399,291	5,631	1,930,940	423,384	3,157,768	6,930,766
	1890	17	13,519,972	5,632	1,984,659	194,474	3,023,933	5,902,615
Dyeing and finishing textiles	1900	59	11,600,695	7,074	3,003,491	809,680	4,513,768	10,488,963
	1890	41	5,197,403	3,735	1,878,137	752,461	2,711,121	6,139,397
Hosiery and knit goods	1900	16	1,973,482	1,841	446,608	122,374	997,110	1,748,148
	1890	15	1,352,143	1,250	312,564	101,146	532,733	1,091,403
Shoddy	1900	4	533,936	156	56,027	25,793	526,492	685,043
	1890	4	193,225	117	35,605	20,150	301,113	389,640
Silk and silk goods	1900	180	29,235,792	24,157	9,232,532	4,396,637	21,631,118	39,966,662
	1890	132	16,809,927	17,445	6,634,610	1,356,195	17,908,833	30,760,371
Woolen goods	1900	13	4,549,798	2,942	1,013,232	461,513	2,700,389	4,755,393
	1890	21	3,810,332	4,165	1,402,153	405,715	3,231,979	5,652,166
Worsted goods	1900	11	12,030,721	3,910	1,097,197	527,527	4,547,694	6,823,721
	1890	6	1,305,271	937	271,442	91,406	1,417,167	2,053,662
Tobacco:								
Total	1900	498	3,003,163	3,595	1,232,353	3,132,760	3,441,994	10,435,974
	1890	443	1,366,071	1,132	518,320	367,649	805,858	2,253,220
Chewing, smoking, and snuff	1900	12	6,692,041	1,355	527,195	2,713,031	2,424,103	7,783,379
	1890	4	311,113	131	46,690	134,322	111,095	343,314
Cigars and cigarettes	1900	486	1,311,122	1,640	705,153	419,729	1,017,386	2,647,595
	1890	444	1,055,553	1,051	472,130	233,327	694,763	1,909,406

The 15 leading industries of the state in 1900, as shown in Table 3, embraced 1,780 establishments, or 11.5 per cent of the total number in the state; used a capital of \$260,301,975, or 51.8 per cent of the total; gave employment to 117,008 wage-earners, or 48.4 per cent of the total number; and paid \$52,825,741, or 48 per cent of the total wages. The value of their products was \$258,421,105, or 42.2 per cent of the total. In the discussion of Table 3, which follows, these industries are ranked with reference to the value of their products.

Table 3 shows that the manufacture of textiles is the most important industry in the state. The 321 establishments reported in 1900 gave employment to 46,932 wage-earners, or 19.4 per cent of the wage-earners employed in the state, and their products were valued at \$72,921,528, or 11.9 per cent of the total value of the products of the state. In 1890 there were 242 establishments, 33,860 wage-earners, and products valued at \$52,855,496. The increase in the value of products during the decade was \$20,066,032, or 38 per cent. The textiles here shown are: Carpets and rugs, other than rag; cotton goods, including cotton small wares; dyeing and finishing textiles; hosiery and knit goods; shoddy; silk and silk goods; woolen goods; and worsted goods.

There were 180 establishments engaged in the manufacture of silk and silk goods in 1900, with 24,157 wage-

earners, and products valued at \$39,966,662. In 1890 there were 132 establishments, 17,445 wage-earners, and products valued at \$30,760,371. The increase in the value of products during the decade was \$9,206,291, or 29.9 per cent.

The silk industry was begun in Paterson about 1840 by Christopher Colt, a brother of Samuel Colt, the inventor of the revolving pistol, and the first silk mill was established in a floor of a building which the latter had erected for the manufacture of pistols. Use was made of water-power derived from the Passaic River, which has been so important a factor in the industrial development of the city. This mill, although equipped with the best machinery, was not successful under Mr. Colt's management, and was closed in about four months. John Ryle, who had learned the art of silk manufacture in England, was the next to engage in the industry in Paterson, and to his skill, energy, and perseverance were due the first successful operations in the state. John Ryle and G. W. Murry, who had had some experience in a silk mill at Northampton, Mass., purchased the Colt mill at Paterson with its entire outfit. No attempt was made to weave broad goods until 1846 when Mr. Ryle, who had become sole owner of the mill, succeeded in weaving pieces of dress silk of several hundred yards length. For nearly twelve years from its foundation this mill was the only

one in Paterson.¹ In 1852 John C. Benson erected a small mill, and in 1854 the firm of Hamill & Booth began business. Both partners were throwsters, who had previously confined their operations to their particular branch of the industry. Like other throwsters, however, they were compelled to take up the business of weaving or leave the silk industry, for the larger firms were then doing their own throwing.

The great growth of the silk industry in Paterson began during the decade ending with 1870. Great amounts of capital were invested and large mills were erected. The number of establishments increased from 8 to 29, and the value of products from \$960,900 to \$4,495,564. Paterson has now become the greatest center of silk production in the United States. Large mills have grown up in other towns in the northern and middle sections of New Jersey, but this city still maintains its preeminence in the industry. Proximity to New York city, the principal market for the sale of silk goods, was one of the influences favorable to the growth of the silk industry at Paterson. Of equal importance were the waterpower of the Passaic River, the facilities for cheap transportation afforded by the Morris and Essex Canal, and, later, by the railroads, and the available supply of labor. Paterson, at an early period, had drawn together a large laboring population. The men were employed largely in machine shops, and their wives and children were glad to take employment in the new industry.

There were 59 establishments engaged in the dyeing and finishing of textiles in 1900, with 7,074 wage-earners, and the work done was valued at \$10,488,963. In 1890 there were 41 establishments, 3,735 wage-earners, and the work done was valued at \$6,183,397. The increase during the decade in the value of the work done was \$4,305,566, or 69.6 per cent.

There were 25 establishments engaged in the manufacture of cotton goods, including cotton small wares, in 1900, with 5,681 wage-earners, and products valued at \$6,980,766. In 1890 there were 17 establishments, 5,632 wage-earners, and products valued at \$5,902,615. The increase in the value of products during the decade was \$1,028,151, or 17.4 per cent.

There were 11 establishments engaged in the manufacture of worsted goods in 1900, with 3,910 wage-earners, and products valued at \$6,823,721. In 1890 there were 6 establishments, 937 wage-earners, and products valued at \$2,058,662. The increase in the value of products during the decade was \$4,765,059, or 231.5 per cent.

There were 13 establishments engaged in the manufacture of woolen goods in 1900, with 2,942 wage-earners, and products valued at \$4,755,393. In 1890 there were 21 establishments, 4,165 wage-earners, and products valued at \$5,652,166. The decrease in the value of products during the decade was \$896,773, or 15.9 per cent.

There were 16 establishments engaged in the manufac-

ture of hosiery and knit goods in 1900, with 1,841 wage-earners, and products valued at \$1,748,148. In 1890 there were 15 establishments, 1,250 wage-earners, and products valued at \$1,091,403. The increase in the value of products during the decade was \$656,745, or 60.2 per cent.

There were 13 establishments engaged in the manufacture of carpets and rugs, other than rag, in 1900, with 1,171 wage-earners, and products valued at \$1,522,827. In 1890 there were 6 establishments, 579 wage-earners, and products valued at \$817,242. The increase in the value of products during the decade was \$705,585, or 86.3 per cent.

There were 4 establishments engaged in the manufacture of shoddy in 1900, with 156 wage-earners, and products valued at \$685,048. In 1890 there were 4 establishments, 117 wage-earners, and products valued at \$389,640. The increase during the decade was \$295,408, or 75.8 per cent.

The manufacture of foundry and machine shop products ranked second among the industries of the state in 1900, with 353 establishments, 17,918 wage-earners, and products valued at \$32,621,229. In 1890 there were 249 establishments, 12,793 wage-earners, and products valued at \$21,666,955. The increase in the value of products during the decade was \$10,954,274, or 50.6 per cent. With the exception of 1 large establishment in Camden and 1 in Phillipsburg, the great machine shops and foundries are located in the large cities and towns of the middle section of the state. The greatest number are in Newark, Jersey City, Hoboken, Paterson, Plainfield, and Elizabeth. The superior railroad facilities for the transportation of coal and iron have been the most important factor in the development of this industry. During the past ten years many firms engaged in it have moved their works from New York city because of the combined advantages of cheap land for building purposes and efficient railroad service.

There were 4 establishments engaged in 1900 in the refining of petroleum, the industry third in rank, with 2,951 wage-earners, and products valued at \$29,649,460. In 1890 there were 4 establishments, 2,610 wage-earners, and products valued at \$20,711,826. The increase in the value of products during the decade was \$8,937,634, or 43.2 per cent.

The refining of petroleum is a comparatively new industry in New Jersey. The first large plant was established about 1875 at Bayonne on the water front facing the Kill van Kull and New York Bay. This site was selected because the surrounding deep water permitted ocean-going ships to be loaded at the docks. The works have grown to immense size. There are 3 companies engaged in the industry at Bayonne and 1 at Edgewater on the Hudson River. During 1900 these 4 establishments used 12,136,537 barrels of crude petroleum, and their products included illuminating and lubricating oils, naphtha, tar, fuel oil, paraffine oil and wax, acid oil, benzine, oil of vitriol, and other articles.

There were 25 establishments engaged in the manufacture of iron and steel in 1900, with 8,288 wage-earners,

¹ History of the Silk Industry in America, by L. P. Brockett, pages 110-112.

and products valued at \$24,381,699. In 1890 there were 28 establishments, 5,150 wage-earners, and products valued at \$11,018,575. The increase in the value of products during the decade was \$13,363,124, or 121.3 per cent. The beginning of this industry dates back to a very early period in the history of the state. One of the largest as well as the oldest manufactories of pig iron is at Oxford in Warren county. Furnaces were established there, and also at Phillipsburg, Hackettstown, Port Oram, and Stanhope, because of the local supplies of iron ore.¹ The rolling mills and steel works are distributed over that part of the state which lies between Dover and Trenton. In and about the city of Newark there are two large plants where crucible steel of a high grade is manufactured. Large establishments are also located at Boonton, Dover, Phillipsburg, Paterson, Passaic, and Trenton. One of these, located in the last-named city, employed more than 2,250 wage-earners in 1900, and its products, principally steel wire, are sent to all parts of the world.

There were 45 establishments engaged in the manufacture of malt liquors in 1900, with 1,723 wage-earners, and products valued at \$14,386,456. In 1890 there were 34 establishments, 1,174 wage-earners, and products valued at \$10,018,393. The increase in the value of products during the decade was \$4,368,063, or 43.6 per cent. The manufacture of malt liquors is one of the leading industries of the state. Newark is the principal center of this industry, 19 of the 45 establishments in operation in 1900 being in that city. There were some small breweries of ale in Newark at an early period in the history of the city, but the great breweries of lager beer, ale, and porter now located there have grown from the small beginnings made by German refugees and immigrants, who came to Newark in large numbers after the revolution of 1848. Wherever these people settled in sufficient numbers brewing sooner or later sprang up.

There were 77 establishments engaged in the tanning, currying, and finishing of leather in 1900, with 4,178 wage-earners, and products valued at \$13,747,155. In 1890 there were 31 establishments, 706 wage-earners, and products valued at \$2,780,016. The increase in the value of products during the decade was \$10,967,139, or 394.5 per cent. This industry is one in which New Jersey, and particularly the city of Newark, has held a leading place from a very early period. A small tannery was erected in Newark in 1770 and operated until the outbreak of the Revolutionary War. In 1792 there were 3 small tanneries there, and another, larger than its predecessors, was started in 1827 by the founders of a well-known firm which is still engaged in the industry. In 1837 there were 155 curriers and patent-leather makers in that city, and the tanned and curried products were valued at \$899,200.² The business grew steadily in different parts of the state, but the growth was greatest in Newark, the

largest establishments as a rule locating there. During the decade between 1860 and 1870 there was an immense advance, the city of Newark practically monopolizing the industry. In the next decade the growth of the industry was very much stimulated by the products displayed by Newark leather manufacturers at the Centennial Exposition. Large factories became the rule, as is seen by the fact that while the number of establishments decreased between 1870 and 1880, the increase in the value of products was very great. In 1887, owing to a prolonged strike and other disturbing influences, the leather industry in Newark received a setback, and conditions had not become normal at the census of 1890. Work had been suspended in many factories and the falling off in value of products was very marked. Since that date conditions have improved again, Newark still maintaining its preeminence in the industry.

There were 61 establishments engaged in the manufacture of chemicals in 1900, with 3,048 wage-earners, and products valued at \$12,207,289. In 1890 there were 44 establishments, 1,712 wage-earners, and products valued at \$8,146,795. The increase in the value of products during the decade was \$4,060,494, or 49.8 per cent. A majority of the establishments engaged in this industry are located in Newark, Camden, and Bayonne.

There were 498 establishments engaged in the manufacture of tobacco in 1900, with 3,595 wage-earners, and products valued at \$10,435,974. In 1890 there were 448 establishments, 1,182 wage-earners, and products valued at \$2,258,220. The increase in the value of products during the decade was \$8,177,754, or 362.1 per cent.

There were 81 establishments engaged in the manufacture of pottery, terra cotta, and fire-clay products in 1900, with 8,117 wage-earners, and products valued at \$8,940,723. In 1890 there were 60 establishments, 4,425 wage-earners, and products valued at \$5,165,537. The increase in the value of products during the decade was \$3,775,186, or 73.1 per cent.

The name of New Jersey is intimately associated with this manufacture. Brick clay is found in every county in the state, but in some the deposits are small. With the exception of some porcelain clays found in the northern part of the state and some in Mercer county, substantially all the valuable clays and sands which form the basis of the pottery industry are mined in Middlesex county, in the neighborhood of Woodbridge and Perth Amboy. The hundreds of clay and sand pits are fortunately so situated that none of them is more than three miles from the navigable waters of Staten Island Sound, the Raritan River, or the South River. Stimulated by these advantages, immense works have been constructed in this section of the state in which architectural terra cotta, fire brick, common and front building brick, gas retorts, stove lining, sewer pipe, and roofing tile are made and distributed to all parts of the United States. The city of Trenton is, however, the most famous pottery center of New Jersey, its name being as naturally associated with the industry in the

¹History of Sussex and Warren counties, by Col. Charles Scranton, pages 78 and 80.

²The New Jersey Register, 1837, pages 246 and 247.

United States as are the names of Staffordshire, Dresden, and Sevres with the industry in Europe. The finest qualities of porcelain, granite, and white ware are produced in this city, and in the production of sanitary ware Trenton leads all other centers.

The first pottery works in New Jersey were erected at Old Bridge, Middlesex county, but the first white ware with any pretensions to artistic beauty was made by the American Pottery Company at Jersey City in 1829. In 1852 the pottery industry of Trenton was begun by James Taylor, in partnership with a man named Speeler.¹ Mr. Taylor had been previously engaged in this manufacture in Jersey City. Yellow and Rockingham ware were successfully made and some experiments tried with porcelain. In 1856 the firm made white-granite ware in connection with its other products, and the same year received the Franklin medal in recognition of what had been accomplished. In 1857 the Excelsior Pottery Company was organized and erected large works along the banks of the Delaware and Raritan Canal. Many who subsequently became successful pottery owners or managers received their training in these works. The first pottery for the production of white-granite and cream colored ware was established in 1859 by the firm of Rhodes & Yates, and other master potters soon followed their example.

The Centennial exhibition in 1876 opened a new era in the pottery industry. The ivory porcelain and Parian vases exhibited there by Trenton manufacturers attracted much attention and greatly lessened the popular prejudice in favor of foreign-made pottery. The stimulus thus given called into existence many new establishments, some of which afterwards became famous in the industry. Hitherto there had been little disposition on the part of practical master potters to go beyond the making of such ware as was put to the most ordinary uses. But as a result of competition, higher grades of ware, more artistic shapes, and better glazes began at this time to take the place of the less perfect products of the kilns. Employers and workmen grew in experience and skill, the old conservatism was abandoned, and the reputation of Trenton pottery products became established.

There were 37 establishments engaged in the manufacture of rubber and elastic goods in 1900, with 2,609 wage-earners, and products valued at \$8,458,274. In 1890 there were 12 establishments, 926 wage-earners, and products valued at \$2,135,705. The increase in the value of products during the decade was \$6,322,569, or 296 per cent. This increase was greater than is shown for any other manufacture carried on in the state, excepting leather. In 1860 there were but 5 establishments reported, 1 in Newark and 4 in New Brunswick, and the products were valued at \$1,303,000. The great increase in this manufacture occurred during the three years between 1897 and 1900, and was caused to some extent by the consolidation of New Jersey companies with competing companies outside

of the state, but it is chiefly due to the general industrial growth which so largely affected all industries during that period.

There were 100 establishments engaged in the manufacture of jewelry in 1900, with 2,779 wage-earners, and products valued at \$7,379,777. In 1890 there were 74 establishments, 1,757 wage-earners, and products valued at \$4,724,500. The increase in the value of products during the decade was \$2,655,277, or 56.2 per cent. In 1900, as in 1890, only 3 states, Rhode Island, Massachusetts, and New York, ranked higher than New Jersey in this industry. The manufacture was established in Newark about the year 1830.² Solid gold jewelry was made and the city acquired a reputation for fine work which it still maintains. All kinds and grades of solid and filled jewelry are now made in the state. The machinery employed is of the latest type, and the workmen engaged in the industry are among the most skillful to be found anywhere.

There were 4 establishments engaged in the manufacture of sewing machines in 1900, with 4,701 wage-earners, and products valued at \$6,643,348. In 1890 there were 3 establishments, 3,931 wage-earners, and products valued at \$4,177,330. The increase in the value of products during the decade was \$2,466,018, or 59 per cent. The manufacture of sewing machines was begun in Newark about 1870. In 1873 an immense plant was moved from New York city to Elizabeth, N. J., and located on the water front facing the Kill van Kull. The main building in which the enterprise is now carried on is five stories in height and more than one-third of a mile long, and 4,500 wage-earners are employed. The sewing machine made when the industry was started in Elizabeth had a capacity of 700 stitches per minute; the capacity of the machine now made is 3,500 stitches.

There were 35 establishments engaged in the manufacture of electrical apparatus and supplies in 1900, with 2,793 wage-earners, and products valued at \$6,447,154. In 1890 there were 3 establishments, 425 wage-earners, and products valued at \$744,274. The increase in the value of products during the decade was \$5,702,880, or 766.2 per cent.

There were 113 establishments engaged in the manufacture of planing mill products in 1900, with 1,993 wage-earners, and products valued at \$5,107,217. In 1890 there were 101 establishments, 1,635 wage-earners, and products valued at \$4,869,372. The increase in the value of products during the decade was \$237,845, or 4.9 per cent.

There were 26 establishments engaged in the manufacture of glass in 1900, with 5,383 wage-earners, and products valued at \$5,093,822. In 1890 there were 34 establishments, 5,688 wage-earners, and products valued at \$5,218,152. The decrease in the value of products during the decade was \$124,330, or 2.4 per cent. This manufacture is confined to the southern part of the state, where an abundance of fine sand of the quality required for making

¹ Report of the Bureau of Statistics of New Jersey, 1883, page 254.

² New Jersey Register, 1837, page 246.

glass is to be found. Bridgeton and Millville are the principal centers. The first glasshouse in the state of which there is any record was built about 1765, near Alloway, Salem county, for the manufacture of bottles, by a German workman who brought men skilled in the industry from his native country.¹ The works were closed about the time of the outbreak of the Revolutionary War, and the men employed started a new glasshouse at Glassboro. One

¹ Report of the Bureau of Statistics of New Jersey, 1883, page 289.

of the largest window and bottle plants in the state is still owned and managed by the descendants of the men who started it nearly one hundred and twenty-five years ago.

URBAN MANUFACTURES.

Table 4 shows the totals for the manufacturing and mechanical industries of the cities of Camden, Elizabeth, Hoboken, Jersey City, Newark, Paterson, and Trenton, as returned at the censuses of 1890 and 1900, with the percentages of increase.

TABLE 4.—COMPARATIVE SUMMARY, CAMDEN, ELIZABETH, HOBOKEN, JERSEY CITY, NEWARK, PATERSON, AND TRENTON, 1890 AND 1900, WITH PER CENT OF INCREASE.

	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
The State.....	1900	15,481	\$502,824,082	241,582	\$110,083,605	\$42,654,076	\$360,945,848	\$611,748,933
Per cent of increase.....	1890	9,225	250,805,745	173,778	82,944,118	18,453,052	189,365,740	354,573,571
		67.8	100.5	89.0	82.7	181.1	90.6	72.5
Camden.....	1900	817	16,480,611	8,941	3,824,494	1,487,751	11,499,151	20,451,874
Per cent of increase.....	1890	658	15,244,506	9,444	4,759,182	709,452	11,816,151	21,145,637
		24.2	7.8	15.3	119.6	109.7	12.7	18.3
Elizabeth.....	1900	419	15,665,545	10,497	6,024,497	1,351,411	9,882,821	20,546,468
Per cent of increase.....	1890	190	7,785,558	6,268	3,351,848	871,214	4,511,626	10,489,364
		120.5	101.2	67.5	79.8	264.1	119.1	95.9
Hoboken.....	1900	899	8,881,015	6,448	3,076,235	878,470	5,724,626	12,092,872
Per cent of increase.....	1890	239	3,948,782	2,982	1,899,628	228,743	3,585,921	7,151,391
		38.1	111.0	116.1	61.9	284.0	59.6	69.1
Jersey City.....	1900	965	80,327,678	19,499	9,126,042	6,528,570	52,254,465	77,225,116
Per cent of increase.....	1890	726	18,165,094	11,412	6,248,882	1,893,926	23,206,894	87,376,322
		32.9	342.2	70.9	46.2	244.7	125.2	106.6
Newark.....	1900	3,839	103,191,408	49,550	23,999,442	10,050,907	67,105,944	126,954,049
Per cent of increase.....	1890	2,490	62,552,752	42,719	22,187,534	6,112,239	46,020,536	93,476,652
		34.1	65.0	16.0	8.4	64.4	45.8	35.8
Paterson.....	1900	995	43,510,481	30,190	12,812,588	5,059,521	26,882,183	52,287,975
Per cent of increase.....	1890	599	27,603,549	23,198	10,439,725	2,143,313	22,480,727	42,263,531
		66.1	57.6	30.1	22.7	136.1	99.6	23.7
Trenton.....	1900	570	26,174,895	14,457	6,791,026	2,057,474	18,057,504	31,645,695
Per cent of increase.....	1890	885	19,278,041	13,763	6,834,404	1,319,216	12,625,400	25,628,223
		135.6	35.8	5.0	10.6	56.0	43.0	23.5
Total for 7 cities.....	1900	7,504	293,631,628	139,577	65,654,214	27,414,104	191,406,694	341,204,049
Per cent of increase.....	1890	5,837	154,578,277	109,786	55,665,703	12,778,103	124,247,195	237,531,120
		28.6	90.0	27.1	17.9	114.5	54.1	43.6
Per cent of 7 cities to total for state.....	1900	48.5	58.4	57.8	59.6	64.3	53.0	55.8
	1890	63.3	61.6	63.2	67.1	69.2	65.6	67.0

¹ Decrease.

It appears from Table 4 that there has been an increase during the past decade in the combined manufactures of these 7 cities. The number of establishments increased from 5,837 to 7,504, or 28.6 per cent; the average number of wage-earners from 109,786 to 139,577, or 27.1 per cent; and the value of products from \$237,531,120 to \$341,204,049, or 43.6 per cent. The percentage of increase in each of these particulars has been smaller in these 7 cities than in the state as a whole. Jersey City shows the most rapid growth, the value of products having increased from \$37,376,322 to \$77,225,116, or 106.6 per cent. In Newark, the leading city, the number of establishments increased from 2,490 to 3,839, or 34.1 per cent;

the average number of wage-earners from 42,719 to 49,550, or 16 per cent; and the value of products from \$93,476,652 to \$126,954,049, or 35.8 per cent. The number of establishments, number of wage-earners, and value of products in this city in 1900 constituted 21.6, 20.5, and 20.8 per cent, respectively, of the totals for the state.

Table 5 presents the totals for the manufacturing industries of the 44 cities and towns withdrawn from the enumerators, places them in comparison with the totals for the entire state and the state exclusive of these cities and towns, and shows their rank in population and in value of products.

TABLE 5.—URBAN MANUFACTURES.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	PRODUCTS.			POPULATION.		
				Average number.	Total wages.			Value.	Rank.	Per cent of total.	Total.	Rank.	Per cent of total.
Total for state	15,481	\$502,824,082	16,488	241,582	\$110,088,605	\$42,654,076	\$360,945,843	\$611,748,933	100.0	1,883,669	100.0		
Total for urban manufactures	11,116	411,782,271	11,802	196,901	91,213,548	36,105,081	283,389,581	486,571,878	79.5	1,196,826	63.5		
Bayonne	225	26,582,058	286	5,083	2,856,776	805,483	84,094,479	39,352,248	4	6.4	32,722	8	1.7
Bloomfield	150	3,354,149	162	1,940	899,298	256,025	1,335,655	3,860,796	17	0.6	9,668	23	0.5
Boonton	39	575,470	42	674	218,618	43,295	1,009,005	1,458,042	29	0.2	3,901	38	0.2
Bordentown	35	590,439	30	409	123,632	35,555	405,976	668,706	40	0.1	4,110	37	0.2
Boundbrook	47	716,323	44	523	150,005	69,737	352,133	742,374	38	0.1	2,522	43	0.1
Bridgeton	135	2,357,651	154	2,333	836,188	99,557	1,216,192	2,649,019	22	0.4	13,913	18	0.7
Burlington	88	1,471,543	96	1,461	610,453	101,573	1,788,443	2,905,991	21	0.5	7,332	25	0.4
Camden	317	16,430,611	344	3,941	3,324,434	1,437,751	11,499,151	20,451,874	7	3.3	75,935	4	4.0
Dover	56	951,695	56	1,367	657,543	44,333	710,248	1,304,850	27	0.3	5,938	29	0.3
East Orange	107	2,311,585	191	1,354	724,495	350,182	1,583,435	3,463,141	18	0.6	21,506	12	1.1
Elizabeth	419	15,665,545	444	10,497	6,024,497	1,351,411	9,832,821	20,546,468	6	3.4	52,130	7	2.8
Gloucester City	74	3,038,922	75	1,555	535,923	235,638	1,260,002	2,922,242	20	0.5	6,840	27	0.4
Guttenberg	43	302,807	43	125	85,670	62,093	116,483	344,531	41	0.1	3,325	40	0.2
Harrison	79	5,210,605	72	2,983	1,468,265	335,943	3,297,603	6,381,783	11	1.0	10,568	20	0.6
Hoboken	399	3,331,016	432	6,448	3,076,285	878,470	5,724,026	12,092,872	10	2.0	59,864	6	3.2
Irvington	60	365,508	67	331	139,485	67,301	1,138,248	1,773,558	28	0.3	5,255	31	0.3
Jersey City	965	80,327,678	962	19,499	9,126,042	6,528,670	52,254,465	77,225,116	2	12.6	206,433	2	11.0
Kearney	33	2,097,861	32	1,102	417,935	127,612	1,081,948	1,845,587	26	0.3	10,396	19	0.6
Lambertville	70	1,763,221	69	913	367,959	130,697	1,333,515	2,264,223	24	0.4	4,637	34	0.2
Millville	47	3,229,206	50	2,290	1,115,696	177,808	964,554	2,610,332	23	0.4	10,583	21	0.6
Montclair	197	1,037,352	207	1,092	619,079	93,462	1,140,759	2,246,817	25	0.4	13,062	17	0.7
Mt. Holly	61	480,559	67	493	167,173	34,014	388,130	699,183	39	0.1	(²)		
Newark	3,339	103,191,403	3,635	49,550	23,999,442	10,050,907	67,105,944	126,954,049	1	20.8	246,070	1	13.1
New Brunswick	193	6,023,086	201	3,726	1,256,034	661,944	2,929,882	5,812,767	12	0.9	20,006	13	1.1
North Plainfield	33	142,524	35	147	77,704	20,829	143,399	312,816	44	(³)	5,009	32	0.8
Orange	284	1,937,457	322	2,712	1,423,284	232,632	2,259,135	4,694,335	15	0.8	24,141	10	1.3
Passaic	185	23,279,421	178	7,102	2,778,278	1,199,108	7,971,505	14,031,254	9	2.3	27,777	9	1.5
Paterson	995	43,510,481	1,074	30,180	12,312,533	5,059,521	25,382,183	52,287,975	3	8.5	105,171	3	5.6
Perth Amboy	129	6,637,766	127	2,253	1,053,242	435,833	11,631,704	14,730,923	8	2.4	17,699	14	0.9
Phillipsburg	87	3,411,239	92	2,560	1,000,381	244,560	2,906,360	4,952,277	14	0.8	10,052	22	0.5
Plainfield	135	2,683,449	143	1,751	970,013	233,836	1,144,724	3,229,969	19	0.5	15,369	15	0.8
Rahway	100	915,208	111	778	407,490	69,085	502,048	1,149,247	34	0.2	7,935	24	0.4
Raritan	27	650,471	27	1,010	299,970	268,974	442,409	1,083,280	35	0.2	3,244	42	0.2
Salem	75	722,434	82	933	316,303	34,012	550,093	1,155,099	33	0.2	5,311	30	0.3
Somerville	88	1,160,976	97	402	235,050	100,710	797,606	1,354,373	31	0.2	4,843	33	0.3
South Amboy	44	282,770	47	288	113,344	11,326	147,865	322,457	43	0.1	6,349	28	0.3
South Orange	45	108,064	53	157	83,740	12,841	165,912	327,552	42	0.1	4,608	35	0.2
Trenton	570	26,174,395	578	14,457	6,791,025	2,057,474	13,057,504	31,645,695	5	5.2	73,307	5	3.9
Union	159	5,618,279	163	1,602	841,247	339,514	1,650,490	3,986,381	16	0.6	15,187	16	0.8
Vineland	53	840,305	68	387	369,976	34,532	775,360	1,450,072	30	0.2	4,370	36	0.2
Washington	41	759,513	43	650	253,050	145,327	446,259	999,262	36	0.2	3,580	41	0.2
West Hoboken	177	4,042,373	191	3,023	1,243,244	677,713	2,329,789	5,491,760	13	0.9	23,094	11	1.2
West Orange	64	1,373,039	70	1,034	499,319	67,788	478,645	1,350,170	32	0.2	6,389	26	0.4
Woodbury	81	1,129,715	79	451	253,457	115,420	373,191	933,612	37	0.2	4,087	38	0.2
Total for state exclusive of urban manufactures	4,366	91,041,811	4,686	44,681	18,875,062	6,549,045	77,556,262	125,177,055	20.5	686,843	36.5		
Per cent of urban manufactures to total for state	71.8	81.9	71.8	81.5	82.9	84.6	78.5	79.5		63.5			

¹ Exclusive of population for Mt. Holly.² Figures not available.³ Less than one-tenth of 1 per cent.

Of the 15,481 establishments in the state, 11,115, or 71.8 per cent, were located in these 44 cities and towns. They furnished employment to 196,901 wage-earners, or 81.5 per cent of the total number; and the value of their products, \$486,571,878, formed 79.5 per cent of the total for the state.

Table 6 shows the totals for the state by counties.

Table 7 shows the totals for the state by specified industries.

Table 8 shows the totals for the cities of Bayonne, Camden, East Orange, Elizabeth, Hoboken, Jersey City, Newark, New Brunswick, Orange, Passaic, Paterson, Trenton, and West Hoboken by specified industries.

Table 9 shows the totals for all industries in the cities and towns withdrawn from the enumerators, exclusive of those shown in Table 8.

TABLE 6.—MANUFACTURES

COUNTIES AND MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 The State	15,481	\$502,824,082	\$42,539,846	\$76,227,514	\$135,371,296	\$248,685,426	16,438	16,283	\$19,688,946	241,582	\$110,088,605
2 Atlantic.....	286	3,553,220	594,524	878,523	1,054,365	1,040,808	306	87	63,967	2,088	\$46,785
3 Bergen.....	478	10,817,001	1,942,777	2,083,078	3,780,295	3,660,851	507	328	880,297	5,275	2,276,233
4 Burlington.....	408	5,464,258	868,432	981,706	1,530,638	2,623,482	436	280	800,473	4,981	1,910,658
5 Camden.....	1,009	21,539,016	1,716,427	3,020,322	5,041,322	11,760,945	1,044	862	998,297	11,377	4,740,961
6 Cape May.....	79	525,462	51,244	86,505	125,533	125,533	89	44	24,742	473	196,189
7 Cumberland.....	385	7,112,880	545,948	1,484,020	1,227,317	3,855,595	390	347	320,262	6,278	2,540,746
8 Essex.....	4,461	117,167,724	9,775,648	17,618,770	25,341,048	64,437,233	4,868	5,185	6,327,071	60,810	29,455,184
9 Gloucester.....	243	5,217,698	588,753	1,005,014	849,789	2,376,289	251	242	184,679	2,659	1,146,110
10 Hudson.....	2,200	140,603,456	12,140,583	16,026,359	46,480,585	65,996,929	2,254	3,107	4,009,958	43,515	20,690,557
11 Hunterdon.....	298	4,230,462	329,757	534,335	534,335	2,452,629	298	157	183,113	2,287	930,786
12 Mercer.....	751	27,766,696	3,690,000	5,256,612	5,207,694	13,712,390	775	903	1,064,656	15,580	7,252,320
13 Middlesex.....	551	26,390,004	2,583,168	5,746,684	5,203,358	12,906,794	551	325	1,935,081	11,843	4,673,677
14 Monmouth.....	602	6,847,176	614,147	1,726,585	2,726,278	1,780,166	687	168	143,792	3,335	1,116,340
15 Morris.....	485	9,304,967	772,417	1,692,838	2,687,695	4,152,017	512	386	386,659	5,779	2,650,441
16 Ocean.....	148	413,100	58,517	95,830	109,464	154,239	159	12	10,902	380	181,859
17 Passaic.....	1,288	70,349,231	3,785,755	9,806,101	21,887,206	35,370,169	1,358	1,314	2,434,146	39,443	16,418,969
18 Salem.....	278	2,684,835	167,457	518,965	478,216	1,620,197	296	80	64,445	2,251	763,101
19 Somerset.....	286	3,796,946	289,036	661,480	914,563	1,931,867	296	155	195,821	2,671	1,007,650
20 Sussex.....	188	4,019,986	297,076	676,262	2,079,072	1,125,234	192	104	122,237	1,709	648,281
21 Union.....	780	25,850,924	2,518,169	4,562,661	5,768,276	13,001,818	819	978	1,218,406	14,780	8,466,783
22 Warren.....	327	9,182,055	729,109	2,416,324	1,936,613	4,100,109	350	227	229,999	5,028	1,978,625

TABLE 7.—MANUFACTURES BY

All Industries	15,481	\$502,824,082	\$42,539,816	\$76,227,514	\$135,371,296	\$248,685,426	16,438	16,283	\$19,688,946	241,582	\$110,088,605
2 Agricultural implements.....	11	219,957	24,400	55,891	41,936	124,731	13	8	11,289	147	60,083
3 Artificial feathers and flowers.....	10	38,295	4,565	5,800	2,466	19,466	13	13		75	20,331
4 Artists' materials.....	8	137,312	12,994	29,379	60,168	84,861	1	6	9,984	58	26,096
5 Awnings, tents, and sails.....	38	72,492	6,125	11,125	10,198	45,044	41	7	8,396	115	54,486
6 Babbitt metal and solder.....	4	79,196	5,000	15,876	9,820	48,500	4	5	8,980	11	6,620
7 Baking and yeast powders.....	4	242,144	35,000	30,000	30,400	146,744	3	3	35,882	88	29,566
8 Baskets, and rattan and willow ware.....	50	90,521	12,500	22,430	22,358	38,233	55	10		109	35,072
9 Belting and hose, leather.....	8	74,500	7,700	10,500	14,171	17,199	10	4	3,430	60	23,338
10 Belting and hose, rubber.....	7	2,208,881	59,320	322,567	845,888	1,481,106	77	77	174,412	776	393,492
11 Bicycle and tricycle repairing.....	300	377,975	37,345	46,607	95,899	198,631	331	6	3,057	211	106,646
12 Bicycles and tricycles.....	7	204,465	13,700	16,000	78,668	96,097	3	24	25,457	133	71,343
13 Billiard tables and materials.....	6	118,611	690	10,300	42,968	64,153	5	10	14,115	75	34,457
14 Blacksmithing and wheelwrighting.....	1,183	1,816,979	399,438	430,619	264,886	672,127	1,274	8	4,054	1,110	597,006
15 Bookbinding and book-making.....	27	159,079	9,100	11,000	61,217	78,898	30	11	8,153	237	82,391
16 Boot and shoe cut stock.....	6	83,290	9,000	7,500	11,220	25,570	6	3	1,616	78	31,284
17 Boot and shoe findings.....	10	145,655	6,100	6,175	31,825	101,556	10	14	15,450	128	49,928
18 Boot and shoe uppers.....	5	6,500	1,600	1,500	610	2,790	6	6		4	1,800
19 Boots and shoes, custom work and repairing.....	969	386,991	57,596	82,408	83,625	163,367	988			336	134,556
20 Boots and shoes, factory product.....	84	3,153,255	68,655	296,541	786,375	2,051,684	86	333	368,968	4,421	1,728,159
21 Bottling.....	235	1,075,449	163,435	216,825	229,991	465,198	261	57	41,676	479	226,924
22 Boxes, cigar.....	7	61,475	5,900	15,200	12,618	27,787	8	1	600	41	16,870
23 Boxes, fancy and paper.....	30	517,284	48,600	109,200	152,215	207,269	35	41	51,323	1,030	274,758
24 Boxes, wooden packing.....	27	382,322	39,117	68,620	70,388	204,187	28	13	14,795	336	124,492
25 Brass castings and brass finishing.....	28	1,776,923	188,988	490,662	494,153	722,320	26	43	40,481	533	269,453
26 Brassware.....	13	842,486	27,000	39,600	120,516	155,370	11	15	21,450	410	136,790
27 Bread and other bakery products.....	785	3,830,640	708,950	1,437,226	786,010	953,454	881	296	182,753	2,701	1,411,975
28 Brick and tile.....	76	3,607,413	902,441	970,897	450,797	1,283,273	76	79	38,169	2,370	835,655
29 Bridges.....	3	107,200	3,300	700	61,700	61,700	3	5	6,000	135	63,753
30 Brooms and brushes.....	82	471,778	9,870	25,450	95,483	370,995	43	42	37,448	365	137,027
31 Buttons.....	34	509,651	6,250	34,672	154,030	314,728	43	53	50,299	1,169	410,056
32 Card cutting and designing.....	14	56,000	600	500	32,075	22,825	17			78	38,117
33 Carpentering.....	839	4,252,401	630,771	730,475	411,830	2,429,325	1,033	104	97,286	6,584	4,145,963
34 Carpets and rugs, other than rag.....	13	1,487,031	120,015	200,137	232,860	324,019	3	47	73,197	1,171	379,423
35 Carpets, rag.....	38	47,227	12,505	20,500	6,050	8,172	8			30	10,654
36 Carriage and wagon materials.....	20	681,931	32,138	48,901	154,540	446,953	26	93	40,327	613	258,494
37 Carriages and wagons.....	288	3,457,827	511,404	734,235	507,794	1,704,394	327	110	122,768	1,909	1,077,745
38 Cars and general shop construction and repairs by steam railroad companies.....	13	2,319,759	404,314	1,218,005	660,080	637,410		179	137,191	4,594	2,399,675
39 Cars and general shop construction and repairs by street railroad companies.....	8	368,550	100,000	100,000	49,150	119,400		9	6,616	229	145,928
40 Cheese, butter, and condensed milk, factory product.....	53	242,284	18,735	73,810	97,040	52,699	55	14	4,350	74	86,852
41 Chemicals.....	61	17,284,675	2,114,179	2,797,240	3,728,737	8,644,519	88	402	577,337	3,048	1,575,132
42 China decorating.....	10	89,745	4,800	23,958	8,460	58,027	10	8	10,898	147	56,476
43 Cleansing and polishing preparations.....	8	28,945	1,800	7,000	2,855	16,690	5	2	1,550	17	9,092
44 Clothing, men's, custom work and repairing.....	632	1,486,293	216,875	218,250	93,647	953,021	679	76	56,432	1,396	675,398
45 Clothing, men's, factory product.....	106	1,068,378	59,000	184,143	89,755	783,480	124	78	91,563	2,756	1,008,327
46 Clothing, men's, factory product, buttonholes.....	5	5,563	2,200	2,000	1,303		8			9	2,639

BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
181,879	\$94,468,105	51,661	\$14,281,265	8,042	\$1,344,235	\$42,654,076	\$3,165,268	\$1,892,699	\$31,374,717	\$6,221,892	\$360,945,848	\$351,076,937	\$9,868,906	\$611,748,938	1
1,563	722,225	879	97,958	146	26,602	173,354	32,237	17,259	119,688	4,170	1,317,319	1,251,118	66,201	3,114,570	2
4,221	2,082,974	847	210,154	207	33,105	704,741	51,779	35,179	509,038	163,745	4,929,073	4,675,912	253,161	10,253,432	3
3,856	1,584,641	1,340	333,191	255	87,826	331,407	28,713	21,989	245,019	35,736	4,935,989	4,782,045	153,894	8,599,363	4
5,019	3,972,089	2,828	636,133	690	82,139	1,912,473	132,236	74,736	1,260,418	445,033	13,826,067	13,416,013	410,054	25,281,123	5
855	174,198	105	19,840	13	2,156	27,859	5,303	2,327	18,614	3,615	300,115	283,859	11,256	786,348	6
4,498	2,181,827	1,320	288,108	460	70,811	348,577	23,204	32,903	277,317	15,153	3,526,560	3,210,562	315,998	7,711,850	7
46,138	25,468,441	12,785	3,743,001	1,437	243,692	11,426,004	1,115,068	508,466	8,977,696	824,334	79,094,438	77,393,203	1,696,235	150,184,111	8
2,318	1,053,847	113	22,342	328	65,421	226,153	7,963	16,269	186,336	15,590	1,923,968	1,788,156	135,812	4,220,735	9
82,336	17,821,504	9,777	2,612,201	1,402	256,552	11,023,244	769,815	472,935	8,517,227	1,263,267	109,051,869	106,808,184	2,243,685	153,370,246	10
2,011	873,466	238	52,901	38	4,419	278,423	16,237	18,798	236,368	12,020	2,918,949	2,839,036	79,913	5,074,736	11
12,516	6,507,158	2,668	674,108	401	71,054	2,139,459	109,033	115,014	1,830,259	85,153	19,490,464	18,761,822	728,642	34,254,095	12
9,814	4,083,117	1,733	440,011	291	47,549	2,252,030	60,041	37,287	1,954,376	149,726	40,436,018	39,784,538	701,482	55,293,129	13
2,289	1,130,383	1,011	279,668	25	2,789	352,386	57,349	22,612	225,647	46,778	3,205,097	3,112,500	92,597	6,578,956	14
4,760	2,333,851	843	241,056	176	26,004	615,593	69,713	25,788	337,796	132,296	6,032,090	5,677,051	405,039	11,423,171	15
345	170,110	31	52,901	4	521	28,655	5,316	11,331	891,004	5,152	2,918,949	2,839,036	4,601	796,730	16
25,441	12,477,992	12,008	3,646,790	1,794	288,587	6,552,662	447,780	274,297	3,555,899	2,275,236	37,219,927	36,126,893	1,093,034	70,703,184	17
1,492	639,082	502	108,394	167	20,625	199,065	17,555	10,161	169,539	2,300	1,815,159	1,723,940	91,219	3,330,347	18
1,374	844,842	587	141,155	160	21,653	1,101,209	44,716	18,949	977,829	59,715	2,530,021	2,429,819	100,408	5,432,781	19
1,310	522,451	395	111,324	54	14,006	138,028	11,085	8,240	90,743	32,890	2,037,329	1,822,067	215,262	3,600,553	20
13,446	8,125,005	1,265	326,779	69	14,989	2,117,074	135,010	102,147	1,439,111	390,806	20,337,347	19,946,036	390,711	37,145,674	21
4,047	1,730,277	896	234,923	85	13,425	595,045	25,185	30,517	380,316	153,027	5,527,090	4,847,388	679,702	9,633,751	22

SPECIFIED INDUSTRIES: 1900.

145	59,408	2	675			23,827	60	1,018	22,449	300	115,697	112,729	2,968	249,963	2
11	3,671	60	15,993	4	670	7,961	1,564	275	322		18,148	17,789	359	63,032	3
53	24,738	5	1,358			2,191		447	7,514		110,510	107,696	2,814	182,825	4
71	39,145	40	14,826	4	515	8,673	5,619	452	2,539	68	78,619	77,968	651	199,659	5
11	6,620					5,833	480	835	5,018		226,645	225,375	1,270	259,500	6
38	17,308	45	11,490	5	768	263,334	440	303	267,691		507,309	504,054	3,255	1,126,734	7
98	33,071	2	355	9	1,646	2,784	991	333	1,410		29,539	28,685	854	104,335	8
44	19,748			6	650	5,437	1,872	590	2,475		69,393	68,205	1,188	122,774	9
628	860,201	119	33,031	29	5,260	98,906		13,823	78,987	6,096	1,870,352	1,836,579	33,773	2,300,145	10
227	104,124	3	864	11	1,658	54,334	36,232	1,635	15,614	1,323	250,308	244,923	5,385	630,451	11
170	68,185	12	2,972	1	186	19,548	3,490	718	14,640	800	147,317	141,870	5,447	295,226	12
50	26,230	24	8,152	1	75	23,496	3,360	1,050	16,376	2,710	140,754	138,323	2,426	251,936	13
1,006	594,318			14	2,638	100,231	63,747	11,424	22,351	2,709	684,675	645,381	39,294	2,461,407	14
123	56,414	101	24,312	13	1,665	11,668	7,776	522	3,232	45	68,594	67,053	1,536	237,691	15
40	19,990	38	11,294			2,905	503	165	3,225		112,452	111,375	577	246,070	16
72	34,055	56	15,873			10,084	2,787	775	5,656	866	130,100	123,710	1,390	286,869	17
4	1,860					594	296	64	234		8,524	3,474	50	3,375	18
327	133,202	1	364	8	990	99,252	36,890	2,270	9,244	1,343	318,093	308,985	9,108	990,480	19
2,740	1,259,819	1,497	427,732	184	35,605	391,043	19,170	3,567	335,220	28,086	4,210,472	4,184,935	25,537	6,973,043	20
467	224,238	7	1,633	5	1,003	142,401	33,118	6,649	102,634		1,321,854	1,313,438	8,366	2,196,638	21
15	8,888	26	7,502			1,342	120	245	977		23,536	22,532	1,004	43,351	22
257	100,077	812	173,067	11	1,614	62,446	9,238	2,943	40,265		397,996	388,704	9,292	893,962	23
217	101,046	101	20,718	18	2,728	23,430	3,850	1,717	17,863		290,222	286,332	3,890	524,217	24
615	265,061	3	951	15	3,451	54,800	7,238	4,859	42,053	600	1,324,073	1,297,176	26,897	1,798,561	25
165	76,318	180	50,370	65	10,102	22,363	1,990	2,100	17,573	700	198,910	187,991	5,919	431,316	26
2,411	1,340,825	226	60,230	34	10,870	374,787	174,405	23,925	171,157	300	4,561,905	4,426,789	135,116	8,133,144	27
2,320	826,598	12	3,807	68	5,250	180,105	23,526	12,229	142,403	1,947	319,637	319,024	226,613	1,345,950	28
135	63,763					33,363	250	136	2,977		278,900	269,050	4,850	397,000	29
224	98,833	124	36,484	17	1,660	52,734	11,828	796	40,110		398,534	393,705	4,876	303,186	30
551	253,119	544	135,610	74	16,327	37,879	16,521	1,458	19,900		398,616	388,354	10,262	1,025,544	31
55	33,751	7	1,800	16	2,566	6,733	4,246	204	2,333		42,989	41,964	1,025	114,532	32
6,526	4,146,564	3	1,368	5	1,031	1,326,363	38,331	25,578	127,670	1,134,331	7,492,535	7,403,154	24,331	15,363,033	33
769	233,005	326	84,831	86	11,537	45,610	970	4,706	39,874		867,959	849,057	18,902	1,522,327	34
24	9,510	5	1,071	1	74	2,403	1,211	404	793		15,630	15,013	612	49,433	35
513	203,788	4	1,426	1	240	49,769	10,520	3,504	35,745		511,016	499,339	11,777	943,431	36
1,900	1,076,042	2	602	7	1,101	186,025	37,900	22,295	111,127	14,703	1,333,685	1,296,195	37,490	3,626,442	37
4,587	2,397,518	7	2,157			195,707	195,707	17,078	76,411	102,218	2,301,699	2,250,456	51,243	5,034,267	38
229	145,928					3,512	870	2,012	630		187,898	186,426	1,472	380,304	39
74	36,852					9,219	1,372	1,165	6,632	50	438,105	477,465	10,640	610,006	40
2,755	1,473,582	289	100,918	4	632	633,013	17,337	52,403	549,796	18,477	6,994,508	6,617,118	377,390	12,207,239	41
54	33,831	81	22,991	12	1,654	9,406	1,612	418	6,981	400	68,178	66,555	1,623	163,184	42
16	3,772	1	320			3,750	1,395	190	2,165		14,326	13,947	379	34,856	43
1,076	59														

TABLE 7.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
47 Clothing, women's, dressmaking	550	\$423,442	\$65,505	\$102,300	\$64,726	\$105,911	591	9	\$3,696	1,036	\$305,390
48 Clothing, women's, factory product	57	1,293,827	72,300	169,119	185,706	921,702	73	144	125,420	2,389	644,394
49 Coffee and spice, roasting and grinding	11	273,257	29,200	81,800	19,385	192,922	19	29	22,106	54	21,765
50 Coffins, burial cases, and undertakers' goods	4	804,237	30,700	29,800	30,300	213,437	4	13	15,779	204	122,525
51 Confectionery	200	869,619	154,150	203,772	203,494	308,203	230	124	46,303	493	201,214
52 Cooperage	36	454,862	80,110	97,069	55,351	222,332	39	19	23,836	386	137,327
53 Copper, smelting and refining	7	6,943,886	854,154	1,568,545	970,991	3,550,196	2	74	133,728	1,707	915,112
54 Cork, cutting	8	102,530	4,750	9,300	23,130	65,350	7	14	11,060	157	46,340
55 Corsets	10	546,466	18,000	103,000	73,974	351,492	18	68	61,624	1,332	423,737
56 Cotton goods	20	13,989,374	800,018	2,888,476	5,128,363	5,172,617	10	141	250,548	5,518	1,857,119
57 Cotton small wares	5	409,917	7,500	47,300	222,312	132,805	1	16	18,730	163	43,321
58 Cutlery and edge tools	19	623,022	76,425	94,863	159,852	297,332	16	90	103,235	775	323,670
59 Dentists' materials	3	69,585	1,050	1,800	10,700	56,030	2	1	2,000	14	6,594
60 Druggists' preparations, not including prescriptions	4	723,373	47,584	123,000	174,569	334,220	8	70	97,090	166	66,805
61 Drug grinding	4	1,392,673	40,903	205,527	281,644	864,599	4	22	39,514	299	143,779
62 Dyeing and cleaning	46	251,490	37,400	54,500	46,440	113,150	52	51	19,350	158	73,214
63 Dyeing and finishing textiles	59	11,000,695	651,481	2,100,396	4,024,059	4,224,759	47	353	614,910	7,074	3,003,491
64 Dye stuffs and extracts	10	591,916	121,000	76,000	131,553	233,363	7	32	33,733	88	40,067
65 Electrical apparatus and supplies	35	7,380,139	182,693	765,707	1,530,224	4,901,515	15	543	598,011	2,793	1,514,333
66 Electrical construction and repairs	47	246,125	54,100	16,700	33,810	141,515	52	21	18,742	237	122,035
67 Electroplating	11	42,680	5,000	10,000	13,075	14,605	15	2	1,716	70	27,230
68 Enameling and enameled goods	9	44,032	2,750	6,777	21,825	12,730	8	4	2,756	25	12,118
69 Engraving and diesinking	15	103,320	4,600	13,800	57,710	32,710	25	5	5,660	110	63,923
70 Engraving, steel, including plate printing	6	50,452	1,400	1,800	32,450	14,802	10	5	6,568	62	40,880
71 Explosives	10	4,283,307	136,125	502,664	556,104	3,088,414	255	206,822	1,146	563,621	
72 Fancy articles, not elsewhere specified	30	1,331,289	36,506	139,600	350,859	704,324	31	212	223,122	1,520	501,958
73 Felt goods	4	306,057	55,000	102,000	161,619	437,238	8	8	19,650	206	33,514
74 Fertilizers	23	5,630,270	556,585	608,332	652,477	3,872,826	30	155	230,330	962	441,177
75 Files	3	80,377	4,700	13,000	23,177	35,000	9	5	3,000	33	41,955
76 Fireworks	10	174,065	40,900	54,175	15,740	63,250	9	11	10,200	325	91,341
77 Flavoring extracts	13	64,150	5,500	7,300	4,286	47,073	15	2	400	36	10,734
78 Flouring and grist mill products	354	3,004,403	370,695	775,210	733,574	1,124,929	398	62	42,098	431	219,951
79 Food preparations	37	1,230,257	43,420	235,635	270,202	740,000	37	112	150,344	373	150,351
80 Foundry and machine shop products	353	31,550,637	2,363,513	4,639,391	7,652,936	16,394,347	302	1,278	1,741,072	17,913	9,375,824
81 Fruits and vegetables, canning and preserving	73	1,429,221	111,805	334,279	250,618	732,519	90	63	33,830	1,992	422,092
82 Fur goods	11	110,895	15,500	20,924	4,311	69,660	12	11	6,590	43	23,622
83 Fur hats	59	2,932,311	242,930	434,751	500,950	1,703,630	66	154	186,266	4,745	2,487,067
84 Furnishing goods, men's	8	244,027	15,500	24,500	29,727	174,300	12	11	6,195	410	114,326
85 Furniture, cabinetmaking, repairing, and upholstering	215	364,874	44,205	90,759	54,942	174,968	239	15	7,416	342	176,877
86 Furniture, factory product	25	595,970	47,275	116,923	89,059	345,713	24	62	43,125	493	254,430
87 Furs, dressed	3	5,525			3,700	1,825	4	1	725	21	15,270
88 Gas and lamp fixtures	17	1,384,258	48,100	136,400	191,401	1,508,337	17	123	163,218	2,011	673,850
89 Gas, illuminating and heating	34	33,872,444	2,119,343	2,332,275	31,743,126	2,677,700	347	347	271,695	1,320	634,219
90 Gas machines and meters	4	122,439	28,900	15,700	25,000	52,339	2	10	3,524	26	12,339
91 Glass	26	5,397,632	330,136	1,164,071	353,600	3,549,855	18	317	284,960	5,333	2,462,745
92 Glass, cutting, staining, and ornamenting	24	105,950	13,550	21,250	16,900	54,250	36	6	4,130	156	78,342
93 Gloves and mittens	4	41,394	5,000	6,600	5,100	24,694	5			131	47,002
94 Glue	4	247,736	17,446	40,334	133,251	56,655	11	11	13,391	68	23,021
95 Gold and silver, leaf and foil	10	45,303	2,075	4,400	15,075	23,755	1	3	4,700	123	45,142
96 Gold and silver, reducing and refining, not from the ore	12	527,125	16,500	16,000	58,125	436,500	16	24	25,264	40	26,552
97 Grease and tallow	32	184,121	44,200	38,050	27,370	74,501	34	7	7,112	84	35,374
98 Hairwork	15	22,995	500	700	3,395	17,900	15	2	1,324	47	13,127
99 Hand knit goods	9	19,513	1,650	2,600	5,205	10,058	10	1	600	20	4,353
100 Hand stamps	4	3,900			2,100	1,800	4			5	1,290
101 Hardware	25	946,289	75,300	105,450	311,171	454,368	20	60	76,110	933	377,497
102 Hardware, saddlery	19	562,535	63,500	97,500	116,992	234,533	24	37	33,719	467	220,542
103 Hats and cap materials	19	133,735	24,750	25,750	52,330	30,905	19	16	21,940	272	31,485
104 Hats and caps, not including fur hats and wool hats	34	503,636	49,100	96,948	79,103	273,484	42	41	42,106	341	230,490
105 Hosiery and knit goods	16	1,973,432	33,000	256,855	742,637	890,940	5	61	73,043	1,341	446,603
106 Ice, manufactured	26	1,658,023	175,700	396,470	970,344	110,514	12	52	37,999	133	94,070
107 Ink, printing	7	429,544	30,700	139,150	65,100	194,594	5	36	37,232	60	31,209
108 Ink, writing	4	81,000	2,000	3,000	16,700	59,300	1	46	23,029	37	12,197
109 Instruments, professional and scientific	18	409,577	33,400	71,100	145,386	159,191	24	41	47,694	255	118,191
110 Iron and steel	25	19,971,609	1,653,603	2,430,631	3,350,334	12,531,536	2	332	497,245	3,233	3,302,911
111 Iron and steel, forgings	7	446,543	11,962	9,504	235,334	139,743	5	10	17,454	134	107,064
112 Ironwork, architectural and ornamental	33	629,041	103,750	80,127	89,713	355,451	39	54	51,937	551	325,207
113 Ivory and bone work	7	96,315	200	1,525	26,313	67,777	11	15	13,442	161	55,332
114 Japanning	5	12,325	3,600	4,700	1,400	3,125	4			16	6,942
115 Jewelry	100	5,523,452	63,250	155,700	567,924	4,731,578	163	321	393,033	2,779	1,563,973
116 Kaolin and other earth grinding	9	375,984	60,600	65,000	80,917	169,567	4	24	25,203	167	77,594

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.	
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.									
118	\$64,355	902	\$238,848	16	\$2,187	\$71,800	\$59,671	\$2,275	\$9,111	\$743	\$950,508	\$314,228	\$6,282	\$1,128,413
212	85,895	2,099	547,693	78	10,806	185,612	19,683	4,456	108,055	8,418	1,156,341	1,144,186	12,205	2,561,034
46	22,948	5	1,490	8	827	10,961	2,030	1,300	7,631		302,811	298,680	8,681	406,114
193	119,523	9	2,716	2	286	15,323	7,500	912	6,911		171,609	169,617	1,992	393,574
330	161,251	158	38,694	10	1,829	110,866	61,465	6,454	41,832	1,115	792,258	776,680	15,628	1,593,852
384	186,927			2	400	29,782	2,740	5,573	21,469		448,187	445,974	2,213	867,228
1,705	914,812			2	800	290,423	1,500	10,080	248,843	80,000	32,546,179	32,034,233	460,896	38,365,181
56	23,396	94	21,600	7	1,844	6,724	2,836	194	3,734		142,640	140,415	2,125	233,879
140	97,693	1,158	320,994	34	5,050	39,311	9,590	2,799	26,922		579,287	573,371	5,916	1,504,886
2,038	1,002,178	2,789	732,990	641	91,951	403,119	5,585	55,078	388,782	3,724	2,926,876	2,803,880	122,996	6,540,239
56	22,535	80	18,059	27	3,227	25,265	1,000	1,086	17,954	5,225	230,892	226,188	4,704	590,477
735	318,650	29	8,806	11	1,214	40,437	7,004	2,928	30,505		247,547	232,431	15,116	821,735
9	4,714	5	1,820			2,560	240	27	2,298		17,059	16,342	717	48,535
70	88,102	95	28,545	1	158	208,664	240	5,062	208,362		311,678	308,269	3,319	864,863
299	143,779					117,870	720	5,798	111,352		1,144,437	1,099,152	45,285	1,468,960
6	104	52	16,750	2	333	20,692	10,835	2,010	6,992	855	119,126	110,202	8,924	323,728
1,120	2,775,797	786	197,098	168	30,601	809,580	31,551	35,296	738,914	3,816	4,613,768	4,093,098	420,673	10,488,968
78	38,618	10	1,449			49,482	3,745	2,220	43,517		282,332	269,300	13,032	502,798
2,605	1,430,591	218	69,044	70	14,698	769,135	34,687	16,056	718,892		2,996,908	2,929,950	66,958	6,447,154
233	120,891	3	1,000	1	144	21,013	10,823	1,346	8,064	775	228,971	225,955	2,986	603,282
68	26,886	1	325	1	99	3,700	2,209	194	1,297		16,400	14,001	2,399	69,567
16	9,032	9	3,086			1,489	1,064	58	3,677		9,381	763	33,601	67
95	65,468	4	1,520	11	1,950	9,244	4,114	260	4,855	15	12,780	11,399	1,381	148,153
60	40,160	2	700			3,019	2,628	77	814		2,614	1,934	680	58,770
1,137	561,743	8	1,732	1	146	215,621		8,326	207,295		2,048,837	1,966,074	82,763	3,549,216
579	308,537	904	188,215	37	5,206	191,329	13,214	3,762	123,008	50,750	1,027,358	1,018,003	9,355	2,190,272
120	77,798	26	5,716			17,523	1,070	4,909	11,544		377,312	364,228	13,089	691,203
929	432,451	30	7,894	3	332	312,500	11,069	18,429	282,268	734	3,146,022	3,096,056	49,966	6,209,734
80	44,317			3	638	5,719	1,688	221	3,310		27,334	24,588	2,746	104,900
114	56,274	126	26,377	85	9,190	4,700	8,983	625	3,092		86,896	85,288	1,608	241,556
12	6,734	23	3,894	1	156	4,125	1,332	271	2,522		44,249	44,064	215	78,763
427	219,265			4	686	102,630	25,083	16,947	60,600		6,243,121	5,206,625	36,496	6,371,997
235	115,753	120	32,237	18	2,311	181,573	8,323	4,048	169,022	180	669,656	655,277	14,379	1,281,971
17,844	9,238,861	362	96,912	212	40,051	1,908,216	142,191	182,846	1,519,627	113,552	14,379,937	14,233,093	646,889	32,621,229
818	232,316	1,088	180,952	86	8,824	83,418	1,440	6,493	75,485		1,401,101	1,388,671	17,430	2,190,176
28	17,472	15	6,150			10,917	3,899	897	6,121		49,319	49,279	540	114,771
3,507	2,071,822	1,199	405,795	39	9,450	253,998	28,912	11,622	188,682	24,782	3,636,621	3,517,819	118,702	7,211,229
53	28,902	344	33,834	13	2,040	27,605	1,610	1,100	24,895		480,313	478,824	1,489	770,579
802	105,937	33	9,322	7	1,613	50,592	27,900	2,578	15,028	5,086	295,682	291,030	4,652	711,389
484	250,460	13	3,788	1	182	62,048	10,022	2,898	36,128	13,000	307,246	298,946	8,300	808,185
21	15,270					1,292	835	12	445		8,395	8,131	804	34,628
620	238,285	1,210	357,794	181	32,771	233,744	10,409	6,112	216,223	1,000	1,228,448	1,205,624	22,824	2,858,748
1,320	684,219					1,074,837	163,488	146,719	764,680		785,979	743,753	37,226	3,767,751
26	12,339					9,000	360	835	7,805		13,799	13,264	535	59,940
4,366	2,278,306	170	32,726	847	151,713	241,655	383	21,668	212,900	6,409	1,488,700	1,042,372	445,328	5,098,822
142	75,752	11	2,070	3	520	7,691	4,116	478	3,047	50	98,859	88,126	10,733	251,603
40	26,873	91	20,129			1,221	260	204	757		62,825	62,380	445	126,065
66	22,646			2	375	7,022	1,044	869	5,109		75,730	70,979	4,751	142,849
57	30,034	71	15,103			2,342	726	124	1,492		102,621	102,137	484	176,602
39	26,152			1	200	15,034	5,782	2,827	6,463	12	2,092,272	2,086,672	6,700	2,252,118
82	35,693			2	176	11,250	1,565	842	8,343		256,919	247,618	9,306	365,172
6	2,164	41	10,963			5,191	3,764	54	1,373		21,403	21,118	285	58,935
4	1,216	15	3,000	1	137	5,336	724	96	91	4,425	14,142	14,087	55	33,440
3	980	1	150	1	160	1,438	579	109	150	600	1,658	1,611	47	8,148
821	358,161	32	8,137	80	11,149	55,437	12,434	5,144	34,559	3,300	502,962	486,820	16,142	1,194,278
440	213,171	15	4,433	12	2,938	30,807	5,054	2,050	23,603	100	208,028	191,312	11,216	599,011
117	51,972	140	27,803	15	1,710	18,468	6,489	1,658	5,296	25	641,649	631,450	10,199	802,315
377	170,719	463	109,621	1	150	51,325	10,748	2,234	38,343		530,243	517,214	13,029	1,105,205
602	187,756	1,087	241,974	152	16,873	122,374	7,148	10,380	103,846	1,000	997,110	982,098	15,012	1,748,148
182	93,570	1	500			51,276	4,325	7,510	39,441		108,158	38,567	74,591	891,685
57	30,639	2	364	1	156	22,812	460	1,558	20,794		93,056	86,809	6,247	294,116
17	7,454	18	4,493	2	250	6,474	2,300	612	3,562		53,441	52,710	731	144,500
216	108,765	22	6,270	17	3,156	15,516	2,425	1,280	11,811		78,416	74,251	4,165	359,897
3,047	3,334,707	176	49,214	65	9,020	1,146,934	6,666	55,960	1,084,358		16,310,425	14,950,110	1,360,315	24,381,699
184	107,064					10,692	4,006	699	5,987		123,685	109,826	13,809	287,542
549	324,857			2	350	63,863	8,039	5,691	34,115	16,018	777,549	764,149	13,400	1,394,070
121	47,606	31	7,148	9	1,228	4,360	3,358	106	896		96,969	94,890	2,079	200,588
14	6,654	1	192	1	96	788	108	127	7,083		7,083	6,408	675	25,100
1,968	1,279,260	775	277,522	36	7,191	420,248	58,646	15,420	346,109	73	3,828,855	3,804,173	24,682	7,379,777
167	77,594					16,592	2,525	2,607	11,460		275,507	252,523	23,984	479,119

TABLE 7.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
117 Kindling wood	9	\$27,470	\$6,810	\$4,475	\$9,475	\$7,210	11		17	\$6,200	
118 Lamps and reflectors	10	868,908	100,707	123,078	173,872	471,248	52	\$67,261	451	205,841	
119 Lasts	3	68,122		25,000	27,681	10,491	7	6,516	44	30,519	
120 Leather goods	13	58,093	6,800	6,360	20,560	24,888	13	4,816	97	29,531	
121 Leather, tanned, curried, and finished	77	9,906,119	1,064,690	1,241,677	772,302	6,827,450	72	412,847	4,178	2,057,197	
122 Lime and cement	84	2,782,320	382,903	697,784	770,377	881,806	26	74,199	995	441,821	
123 Linen goods	3	2,535,791		201,286	564,870	470,177	1	56,641	1,476	449,670	
124 Liquors, distilled	81	304,934	8,010	50,775	42,125	204,024	33	7,320	71	30,278	
125 Liquors, malt	45	26,330,466	1,559,072	6,212,028	5,108,292	13,453,074	18	813,888	1,728	1,800,915	
126 Liquors, vinous	11	879,096	12,860	84,840	15,688	262,718	6	9,404	43	177,461	
127 Lithographing and engraving	3	40,067			38,180	1,887	1	5,000	31	18,684	
128 Lock and gun smithing	63	48,819	5,150	7,100	17,113	18,956	64	75	39	19,009	
129 Looking-glass and picture frames	44	1,053,032	7,100	10,600	11,444	76,888	46	5,570	73	30,885	
130 Lumber and timber products	205	1,477,930	890,677	136,090	869,413	681,760	240	22,136	706	805,486	
131 Lumber, planing mill products, including sash, doors, and blinds	113	3,935,044	502,678	519,237	849,018	2,114,601	122	183,922	1,998	1,060,680	
132 Mantels, slate, marble, and marbleized	7	29,355	1,000	6,000	2,855	19,800	10		25	17,400	
133 Marble and stone work	78	2,043,399	486,825	171,979	395,488	994,807	81	97,006	1,337	729,576	
134 Masonry, brick and stone	207	2,039,300	199,060	228,720	251,052	1,404,968	855	69,044	4,145	2,594,922	
135 Mattresses and spring beds	26	418,646	48,000	119,200	87,372	213,174	29	27,050	217	78,688	
136 Millinery and lace goods	17	108,285	15,425	30,400	25,325	32,135	19	1,621	165	64,960	
137 Millinery, custom work	303	704,220	125,428	148,650	24,478	407,689	849	52,795	706	218,126	
138 Mineral and soda waters	122	932,134	121,075	197,850	402,405	260,804	142	23,082	483	224,950	
139 Mirrors	4	60,100	1,500	13,200	12,500	32,900	9	6,404	59	40,097	
140 Models and patterns	20	91,156	10,220	15,000	28,540	41,298	34	1,325	149	124,612	
141 Monuments and tombstones	92	452,803	55,920	61,648	25,920	309,315	110	12,920	223	139,377	
142 Mucilage and paste	6	46,698		600	11,797	34,299	4	2,060	20	10,147	
143 Musical instruments and materials, not specified	13	1,109,878	16,200	177,402	291,407	624,369	10	39,278	740	365,439	
144 Musical instruments, organs and materials	5	593,150	24,000	96,000	39,650	433,500	5	31,430	434	201,933	
145 Musical instruments, pianos and materials	10	813,743	102,000	112,100	362,090	237,553	11	12,942	329	158,450	
146 Oil, not elsewhere specified	11	1,122,295	52,520	169,428	126,736	778,613	4	159,543	137	74,625	
147 Oilcloth, floor	6	2,652,800	231,000	770,093	743,753	307,949	2	74,812	863	465,226	
148 Optical goods	10	18,620			3,680	14,940	16	3,500	8	3,480	
149 Painting, house, sign, etc	678	1,287,322	187,890	227,695	164,972	786,765	782	66,428	2,622	1,640,641	
150 Paints	27	2,607,887	122,350	357,206	404,697	1,623,614	20	178,238	626	317,786	
151 Paper and wood pulp	84	3,670,717	419,718	776,201	1,442,276	1,082,624	25	162,788	1,190	553,463	
152 Paper goods, not elsewhere specified	15	984,149	75,600	167,133	519,091	422,325	10	54,504	306	181,337	
153 Paper hanging	66	145,245	18,900	17,600	5,846	102,900	71	1,492	136	108,816	
154 Paper hangings	5	1,427,508	10,100	125,407	324,846	967,255	6	100,274	609	276,204	
155 Patent medicines and compounds	35	448,669	35,020	83,478	52,868	277,208	27	68,672	107	50,351	
156 Paving and paving materials	81	1,080,270	185,210	107,923	252,718	584,419	37	65,030	1,732	687,911	
157 Perfumery and cosmetics	10	29,769	50	200	5,092	24,427	5	12,330	44	11,599	
158 Petroleum, refining	4	23,332,426	3,011,007	1,695,020	9,857,910	8,768,489	2	301,071	2,951	1,768,788	
159 Photographic apparatus	3	279,275	12,000	41,334	48,099	177,842	2	22,846	175	75,110	
160 Photographic materials	4	70,667	1,000	9,707	13,787	41,173	1	21,281	50	20,340	
161 Photography	166	790,122	41,085	141,002	182,577	425,458	176	14,637	332	130,212	
162 Photolithographing and photoengraving	8	15,196			9,700	5,496	4		16	7,300	
163 Pickles, preserves, and sauces	22	847,891	79,520	162,850	137,965	477,556	28	79,510	418	142,738	
164 Pipes, tobacco	3	3,650	1,300	600	960	800	4		9	2,081	
165 Plastering and stuccowork	34	284,923	44,345	40,901	36,156	113,021	38	14,974	118	63,942	
166 Plumbers' supplies	6	102,440	8,000	26,100	51,222	107,118	4	24,812	166	85,523	
167 Plumbing, and gas and steam fitting	639	2,995,493	326,920	499,035	322,186	1,857,357	763	95,231	3,363	1,832,558	
168 Pocketbooks	3	344,499	24,120	72,000	20,250	228,129	3	48,238	614	197,099	
169 Pottery, terra cotta, and fire-clay products	81	15,324,966	2,415,663	5,009,945	3,118,988	4,730,370	67	634,283	8,117	3,841,404	
170 Printing and publishing, book and job	183	1,929,935	145,956	213,777	1,072,638	497,694	206	152,230	1,447	624,079	
171 Printing and publishing, newspapers and periodicals	261	4,210,237	440,915	468,162	2,331,040	969,640	240	344,461	2,077	1,162,033	
172 Refrigerators	6	82,150	27,500	19,000	7,050	28,600	7	2,370	49	29,349	
173 Roofing and roofing materials	86	1,132,331	101,461	180,130	152,380	698,410	87	93,139	580	328,793	
174 Rubber and elastic goods	37	6,078,155	195,376	584,060	1,199,374	4,099,345	7	373,013	2,609	1,150,503	
175 Saddlery and harness	292	1,272,900	158,260	170,245	154,456	789,939	321	53,542	955	455,064	
176 Sausage	9	37,250	23,850	33,950	16,900	13,150	9		38	20,430	
177 Saws	4	571,283	71,296	58,800	188,427	252,760	2	24,284	140	67,221	
178 Scales and balances	7	490,922	11,700	13,300	73,320	392,602	5	20,120	69	33,470	
179 Sewing machine repairing	12	6,011			2,158	3,853	13		3	1,525	
180 Sewing machines and attachments	4	4,317,666	425,000	1,013,676	964,956	1,914,034	132	182,993	4,701	2,809,523	
181 Ship and boat building, wooden	64	1,670,939	178,054	210,227	616,894	665,794	60	75,859	1,416	778,103	
182 Shipbuilding, iron and steel	4	2,015,363	537,000	189,500	414,436	854,427	1	82,168	1,458	1,014,106	
183 Shirts	39	999,994	85,972	205,100	181,718	494,204	49	54,596	3,072	949,896	
184 Shoddy	4	538,936	49,290	98,958	128,751	261,942	16	30,100	156	56,027	
185 Silk and silk goods	180	29,235,792	733,367	2,966,034	7,297,856	18,288,485	197	1,144,612	24,157	9,232,532	
186 Silversmithing	7	1,103,836	13,426	400,917	312,928	376,565	4	58,801	613	353,218	
187 Silverware	7	655,077			109,604	545,473	12	59,666	317	170,117	
188 Slaughtering and meat packing, wholesale	22	1,035,347	110,000	253,000	182,421	438,426	30	72,226	352	186,737	
189 Slaughtering, wholesale, not including meat packing	19	554,542	25,533	44,200	20,600	464,209	30	21,854	208	145,088	
190 Smelting and refining, not from the ore	3	2,161,964	140,890	261,666	1,585,400	174,068	8	19,498	201	76,828	
191 Soap and candles	17	1,724,137	192,150	255,420	295,234	977,333	16	213,795	540	207,612	

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
17	\$6,200					\$1,895	\$385	\$512	\$998		\$18,247	\$12,542	\$705	\$26,265	117
936	174,299	112	\$30,418	3	\$624	109,404	3,896	2,013	103,495		262,167	254,048	8,119	795,669	118
44	20,519					4,202	2,298	109	1,795		19,145	17,928	1,217	65,363	119
42	18,276	44	9,805	11	1,950	4,811	2,328	308	2,175		50,254	49,842	912	112,899	120
4,101	2,038,955	39	9,900	38	8,342	507,758	81,817	86,667	428,187	\$11,132	9,582,507	9,424,541	107,966	13,747,155	121
995	441,821					129,650	13,034	9,238	101,878		936,760	651,268	285,482	1,767,548	122
382	199,964	778	210,801	316	33,905	174,979	600	28,557	145,822		1,318,111	1,291,243	21,868	2,168,570	123
70	30,086	1	192			633,516	9,180	1,727	622,409	200	126,707	114,207	12,500	884,302	124
1,715	1,358,715	2	1,030	6	1,200	6,733,772	5,520	112,564	6,615,688		2,782,420	2,581,748	200,672	14,386,466	125
37	16,321	6	1,140			12,500	850	938	10,692	25	68,456	62,976	480	241,777	126
19	10,560	12	3,124			2,385	1,230	20	1,085		14,271	13,655	616	37,660	127
35	18,037	2	572	2	400	12,421	9,663	818	2,095	350	25,926	24,483	1,443	101,614	128
64	29,202	1	300	8	1,833	15,039	11,682	532	2,724	151	92,060	91,185	875	192,457	129
704	305,186			2	800	51,237	7,498	10,830	33,409		998,161	997,260	895	1,859,014	130
1,988	1,057,780	5	1,650	5	1,250	186,678	25,904	24,427	130,247	5,100	2,902,997	2,878,270	29,727	5,107,217	131
25	17,400					8,210	1,848	110	452	800	40,851	40,711	140	89,450	132
1,380	727,695			7	1,890	191,783	16,828	10,848	128,627	35,485	819,142	788,740	30,402	2,203,767	133
4,140	2,391,807			5	615	455,153	11,881	8,101	124,615	811,056	3,245,515	3,232,519	12,996	7,951,611	134
167	63,184	54	14,644	6	860	18,062	4,814	2,554	9,454	1,240	258,351	256,148	2,203	463,407	135
39	29,690	99	31,895	17	3,375	7,464	1,756	880	3,562	1,260	57,882	57,030	852	172,240	136
21	11,288	676	205,701	9	1,137	91,805	63,918	4,239	22,492	1,156	761,373	755,673	5,700	1,477,305	137
422	221,786	2	602	12	2,562	62,331	12,143	5,865	44,733	40	364,214	355,378	8,835	1,067,642	138
76	34,821	10	2,916	13	2,360	2,269	1,240	265	764		62,829	61,589	1,240	130,782	139
143	123,508	5	1,020	1	84	7,967	4,605	431	2,631	400	28,840	26,723	2,117	226,312	140
223	139,377					29,481	5,283	2,484	15,898	5,816	346,273	310,370	5,903	677,861	141
13	7,700	4	1,715	3	732	6,453	1,613	219	4,621		54,884	54,562	322	90,827	142
596	330,383	135	32,476	9	2,030	62,804	1,511	3,021	58,269		364,737	355,166	9,571	379,621	143
433	201,583	1	350			129,577	360	2,577	126,390	250	316,262	311,123	5,139	772,485	144
299	153,367	5	1,206	25	3,377	56,393	5,885	1,999	48,709	400	246,771	241,736	5,035	559,693	145
133	78,475	4	1,150			107,702	1,220	3,519	102,953		1,851,179	1,841,719	9,460	2,341,900	146
843	457,796	2	840	18	6,590	132,894		13,557	119,337		1,735,377	1,692,305	42,572	2,811,533	147
7	3,270			1	160	5,518	3,124	65	2,073	256	22,782	22,347	435	56,725	148
2,611	1,538,256	3	870	8	1,415	122,536	66,289	7,011	47,231	2,005	978,842	974,469	4,373	3,618,539	149
558	299,972	68	17,814	8	1,415	191,449	8,524	10,564	158,290	14,071	2,519,447	2,463,087	56,360	3,460,362	150
1,030	517,783	152	34,081	8	1,536	242,793	16,606	16,356	190,139	19,692	1,715,312	1,503,823	211,484	3,195,302	151
245	116,657	48	11,510	13	3,170	86,152	4,105	4,071	77,976		745,444	731,015	14,429	1,168,352	152
192	108,298	4	518			12,171	3,750	673	2,514	231	109,349	108,720	629	310,094	153
516	252,859	78	19,379	15	3,966	96,910	16,000	4,214	76,696		1,004,474	988,807	15,667	1,597,746	154
76	41,370	80	8,877	1	104	131,007	5,907	1,731	173,369		169,367	165,982	3,385	579,343	155
1,777	687,216	5	695	5	695	142,953	10,776	4,894	48,271	73,012	676,698	640,965	29,733	1,953,473	156
18	6,420	25	4,979	1	200	40,615	2,929	111	34,575	3,000	66,092	65,482	610	142,082	157
2,930	1,764,368	21	4,400	21	4,400	551,211	4,807	71,484	467,169	7,751	26,710,213	25,935,969	774,241	29,649,160	158
146	67,262	14	5,451	15	2,397	33,373	800	411	31,202	1,400	72,102	69,964	2,138	221,923	159
26	15,541	23	4,549	1	250	15,363	4,570	260	10,593		153,586	151,072	2,514	357,217	160
197	92,225	132	37,621	3	366	96,957	43,085	1,909	50,898	1,065	286,987	283,191	3,796	793,827	161
14	6,338	1	312	1	150	1,587	900	35	652		3,520	3,160	360	21,500	162
283	105,789	132	36,432	3	512	111,439	4,574	2,849	104,516		373,262	362,355	10,907	1,329,852	163
5	1,456	2	400	2	225	239	24	23	192		923	803	60	4,112	164
118	63,942					11,940	2,482	1,587	7,671	200	112,937	103,756	4,181	272,204	165
166	85,523					15,963	5,383	1,576	9,004		161,339	151,119	10,220	324,221	166
3,324	1,874,808	5	1,716	34	6,034	226,551	96,835	13,704	92,184	23,823	3,345,388	3,312,531	32,857	7,205,076	167
343	151,180	211	33,919	60	12,000	34,337	100	2,572	31,665		454,241	452,390	1,854	852,324	168
7,007	3,521,820	917	283,282	193	36,302	792,475	14,371	55,198	690,432	32,424	2,884,059	1,673,948	710,111	8,940,723	169
995	510,499	379	100,541	73	13,039	110,700	39,922	6,027	60,325	4,426	695,122	673,429	21,693	2,038,966	170
1,775	1,082,939	201	64,633	101	14,461	289,011	56,443	18,142	170,306	43,620	892,690	851,495	41,195	3,731,068	171
49	29,349					4,917	535	506	3,376		40,944	40,124	820	109,510	172
575	327,570	4	1,048	1	175	147,303	14,231	4,875	125,697	2,500	1,033,257	1,023,498	9,759	1,885,963	173
2,153	1,029,604	382	104,464	74	16,435	409,202	18,492	26,594	359,431	4,635	5,636,006	5,564,427	131,579	8,458,274	174
854	425,651	83	26,902	28	2,511	119,799	40,790	7,063	71,766	180	811,457	797,601	13,886	1,879,240	175
33	20,430					5,559	660	890	1,009	3,000	115,106	113,402	1,704	169,081	176
137	66,890	3	831			14,974	620	3,338	11,016		58,591	55,072	3,519	235,352	177
64	37,410	3	760	2	300	11,245	2,178	1,160	7,907		27,840	25,136	2,704	124,914	178
1,525	778,924					2,663	2,260	15	383		2,756	2,701	55	14,470	179
4,431	2,724,924	270	84,599			108,801	6,990	27,317	74,494		2,717,907	2,638,824	79,083	6,643,348	180
1,416	778,103					116,935	39,040	6,144	60,544	11,187	716,592	704,928	11,664	1,953,041	181
1,429	1,005,106			29	9,030	251,092	29,520	9,151	87,421	125,000	1,232,927	1,208,402	24,525	2,857,429	182
573	347,063	2,449	593,847	50	8,986	99,627	12,400	6,646	44,031	36,500	1,146,034	1,126,494	19,990	2,693,470	183
128	49,445	28	6,582			25,798	250	1,457	23,176	915	526,492	514,327	11,665	695,043	184
11,279	5,296,102														

TABLE 7.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
192 Sporting goods	5	\$105,662	\$2,000	\$6,000	\$22,894	\$74,828	2	9	\$13,060	101	\$32,249
193 Springs, steel, car and carriage	3	156,572	25,000	53,000	48,000	30,572	4	9	11,750	56	33,671
194 Stamped ware	23	1,647,545	87,496	179,325	648,816	731,908	20	84	86,794	1,629	560,395
195 Stationery goods, not elsewhere specified.	3	46,532			13,332	33,250	1	5	6,500	41	13,310
196 Steam fittings and heating apparatus	13	536,500	18,000	45,938	56,194	416,368	8	78	92,858	190	89,812
197 Steam packing	4	41,500		6,000	13,000	23,500	1	9	9,840	58	23,900
198 Stereotyping and electrotyping	3	14,875			9,600	6,275	7			11	8,078
199 Surgical appliances	10	893,730	35,800	164,569	137,433	530,948	10	57	87,613	417	134,385
200 Taxidermy	6	15,755	5,010	2,540	15,480	7,775	6			10	3,220
201 Tinsmithing, coppersmithing, and sheet-iron working.	251	1,346,634	137,710	223,314	310,647	669,513	273	66	58,492	1,050	653,887
202 Tobacco, chewing, smoking, and snuff	12	6,692,041	435,947	1,433,059	1,028,406	3,744,629	6	204	197,814	1,955	527,195
203 Tobacco, cigars and cigarettes	486	1,311,122	177,665	220,165	70,213	843,079	503	33	30,574	1,640	705,148
204 Tools, not elsewhere specified	28	1,134,389	78,803	159,693	353,368	517,470	34	72	87,758	1,026	526,492
205 Toys and games	11	31,227	8,900	15,000	27,830	29,447	14	3	2,700	103	28,626
206 Trunks and valises	18	676,544	27,700	40,576	145,667	462,602	21	36	49,569	741	331,842
207 Typewriters and supplies	5	1,015,459	55,944	124,757	238,333	595,920	5	91	60,233	649	339,923
208 Umbrellas and canes	4	33,562	10,000	15,000	20,952	37,610	3	7	5,280	140	40,419
209 Upholstering materials	8	223,353	25,700	20,600	59,530	117,523	9	10	9,010	145	58,212
210 Varnish	24	8,949,265	300,543	673,931	364,611	2,610,145	11	251	372,559	221	163,035
211 Vinegar and cider	20	79,535	6,957	19,033	22,450	31,095	33			23	8,553
212 Washing machines and clothes wringers	3	12,750	1,000	2,000	6,110	3,640	4			4	2,330
213 Watch and clock materials	3	185,165	20,100	20,150	50,315	94,600	2	4	10,000	45	30,250
214 Watch cases	5	1,371,137	23,000	193,000	320,934	829,153	2	33	49,420	637	305,268
215 Watch, clock, and jewelry repairing	298	426,213	39,350	67,000	88,659	230,609	311	4	2,400	230	130,702
216 Watches	3	910,592	76,051	155,125	336,410	343,066	1	14	35,206	525	261,135
217 Window shades	11	196,639	19,500	51,500	34,150	91,539	12	35	47,150	123	66,922
218 Wire	9	1,105,301	42,500	73,194	153,113	836,497	1	15	29,316	176	121,710
219 Wirework, including wire rope and cable	13	736,384	44,350	58,200	201,648	431,686	11	46	48,647	670	300,133
220 Wood, turned and carved	50	472,579	43,606	104,900	109,749	214,324	62	11	9,484	294	131,041
221 Woodenware, not elsewhere specified	3	11,170	1,500	2,050	5,600	2,020	4			5	1,612
222 Woolen goods	13	4,549,793	248,502	703,322	374,970	2,723,004	1	43	85,619	2,942	1,013,232
223 Wool scouring	3	23,778			18,476	5,300	4			24	12,065
224 Worsted goods	11	12,080,721	171,902	1,608,247	2,643,417	7,657,155	13	112	197,934	3,910	1,097,197
225 All other industries ¹	88	41,007,900	3,746,640	4,726,650	6,050,723	26,433,837	65	656	908,451	7,668	3,129,519

¹ Embraces axle grease, 2; bags, other than paper, 1; bags, paper, 1; blacking, 1; bluing, 2; boots and shoes, rubber, 2; brass, 1; brass and copper, rolled, 2; bronze castings, 2; carriages and sleds, children's, 1; cars, steam railroad, not including operations of railroad companies, 2; cars, street railroad, not including operations of railroad companies, 1; charcoal, 2; chocolate and cocoa products, 2; cloth, sponging and refinishing, 1; clothing, horse, 1; cordage and twine, 1; crucibles, 2; emery wheels, 1; fish, canning and preserving, 1; flags and banners, 1; foundry supplies, 1; galvanizing, 1; graphite and graphite refining, 2; house furnishing goods, not elsewhere specified, 2; iron and steel, bolts, nuts, washers, and rivets, 2; iron and steel, pipe, wrought, 1; jewelry and instrument cases, 1;

TABLE 8.—MANUFACTURES IN CITIES

BAYONNE.

	225	\$26,583,058	\$3,849,989	\$2,617,376	\$10,100,349	\$9,954,844	236	251	\$414,099	6,033	\$2,856,776
1 All industries	225	\$26,583,058	\$3,849,989	\$2,617,376	\$10,100,349	\$9,954,844	236	251	\$414,099	6,033	\$2,856,776
2 Bicycle and tricycle repairing	5	5,615			690	4,925	7			3	516
3 Blacksmithing and wheelwrighting	9	23,760	5,200	10,710	3,375	3,975	9			12	7,322
4 Boots and shoes, custom work and repairing.	40	16,374	1,223	3,170	4,045	7,930	40			4	2,072
5 Bread and other bakery products	15	39,050	3,700	15,200	11,800	8,350	16	3	1,300	46	22,948
6 Carpentering	19	41,650	5,900	12,100	6,000	17,650	22			94	67,045
7 Chemicals	3	2,100,571	476,723	875,617	346,476	401,752		29	31,314	289	172,766
8 Clothing, men's, custom work and repairing.	10	13,010	2,350	5,450	1,425	3,785	10			11	6,437
9 Clothing, men's, factory product	3	7,225	550	1,100	1,350	4,225	4			90	36,164
10 Clothing, women's, dressmaking	7	9,400	2,000	5,000	690	1,710	7			13	4,071
11 Masonry, brick and stone	5	45,110	6,750	15,000	6,060	17,300	5	1	600	33	20,557
12 Millinery, custom work	8	11,875	1,100	4,500	1,100	5,175	8			9	1,391
13 Painting, house, sign, etc	17	23,074	3,300	7,275	2,333	9,661	18			64	44,239
14 Paving and paving materials	6	26,950	4,700	6,500	3,800	11,950	6			70	26,819
15 Petroleum, refining	3	22,323,812	2,385,787	1,514,002	9,512,435	8,411,588		140	277,847	2,843	1,685,371
16 Photography	4	6,275	750	2,300	2,400	825	4			2	650
17 Plumbing, and gas and steam fitting	16	72,993	6,703	14,945	8,850	42,500	18	2	700	82	48,175
18 Printing and publishing, newspapers and periodicals.	4	19,514		350	14,191	4,973	6	3	1,496	11	6,604
19 Saddlery and harness	3	2,928			578	2,350	3			3	1,300
20 Ship and boat building, wooden	3	77,400	14,100	25,200	18,900	19,200	2	8	4,133	23	8,232
21 Shirts	4	10,355			9,350	1,505	6			113	42,072
22 Tobacco, cigars and cigarettes	4	1,035			635	400	5			1	520
23 Watch, clock, and jewelry repairing	5	8,175			2,700	5,475	5			1	208
24 All other industries ¹	32	1,696,402	429,144	98,957	200,661	967,640	35	65	96,659	1,261	651,637

¹ Embraces bookbinding and blank book making, 1; bottling, 2; brooms and brushes, 1; carriages and wagons, 1; cars and general shop construction and repairs by steam railroad companies, 1; clothing, women's, factory product, 1; coffee and spice, roasting and grinding, 1; confectionery, 2; copper, smelting and refining, 1; cutlery and edge tools, 1; electrical construction and repairs, 1; foundry and machine shop products, 2; furniture, cabinetmaking, repairing, and upholstering, 1; hardware, 1; hats and caps, not including fur hats and wool hats, 1; instruments, professional and scientific, 1; looking-glass and picture frames, 1;

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
30	\$13,165	53	\$17,267	13	\$1,817	\$10,050	\$4,284	\$334	\$5,432		\$177,772	\$175,843	\$1,929	\$267,512	192
56	33,671					1,912		613	1,269		53,102	50,172	2,930	121,238	193
1,149	464,265	361	77,896	119	18,231	107,470	7,783	9,962	70,275	\$19,450	769,057	747,086	21,971	1,748,132	194
29	10,960	7	1,850	5	500	5,716	1,860	18	4,368		31,321	30,436	885	67,512	195
165	86,617	22	2,687	3	508	82,445	2,653	1,380	63,912	14,500	558,716	552,561	6,155	908,907	196
46	21,200	12	2,700			5,672	3,780	342	1,550		46,490	40,090	6,400	123,500	197
11	8,078					1,618	372	10	736		5,796	5,316	480	27,846	198
189	62,588	203	57,721	75	14,076	218,529	1,605	2,199	244,725		571,850	562,750	9,100	1,200,435	199
9	3,020	1	200			721	209	134	275		5,952	5,907	45	16,695	200
1,000	542,935	39	8,942	11	2,010	97,386	32,492	7,686	46,974	10,231	955,773	940,981	14,792	2,113,398	201
797	311,899	1,054	104,660	104	20,636	2,713,031	2,100	17,339	2,692,842	250	2,424,108	2,385,030	39,069	7,788,379	202
825	448,283	736	211,043	79	15,332	419,729	55,005	7,166	357,558		1,017,886	1,010,443	7,443	2,647,595	203
1,013	523,408	4	1,254	9	1,830	68,610	5,656	5,125	50,111	7,718	689,080	558,689	30,391	1,490,015	204
43	16,330	85	8,966	20	2,330	4,339	1,725	276	2,338		46,154	45,145	1,009	148,404	205
704	321,499	30	9,225	7	1,118	60,244	24,109	2,327	33,263	45	717,668	711,528	6,035	1,356,951	206
592	326,902	10	5,272	47	7,749	90,785	5,668	1,490	81,813	1,861	231,759	227,831	3,928	744,680	207
185	39,183	4	1,156	1	80	3,432	1,800	757	875		36,720	35,474	1,246	107,309	208
69	36,642	76	21,570			8,701	2,620	1,280	4,801		169,623	163,393	5,730	304,728	209
217	157,173	2	612	2	300	197,258	7,645	15,664	174,019		1,306,244	1,293,972	12,272	2,753,562	210
23	8,553					2,138	860	441	1,337		33,014	32,439	1,425	68,399	211
4	2,330					638	253	30	350		1,308	1,253	55	5,860	212
35	26,250	10	4,000			1,533	50	754	729		50,322	49,468	854	103,572	213
515	255,900	107	44,868	15	4,500	34,535	920	4,120	29,495		780,871	724,956	5,915	1,258,601	214
218	123,025	5	1,350	7	1,327	62,133	41,638	2,033	10,639	7,373	131,271	127,663	3,608	588,494	215
239	190,255	210	68,106	26	2,774	95,473		1,775	93,698		134,250	131,933	2,326	551,444	216
109	60,573	19	6,349			19,179	2,120	1,454	15,355	250	418,446	415,910	2,536	746,525	217
169	119,860	7	1,850			37,191	500	1,918	34,773		2,899,391	2,879,930	19,411	3,375,905	218
560	275,443	106	24,060	4	675	51,943	13,720	3,373	31,050	300	607,886	592,432	15,454	1,102,643	219
259	125,019	2	561	33	4,458	25,180	6,195	2,534	14,506	1,945	134,045	124,417	9,628	395,120	220
5	1,612					1,209	600	113	590		4,601	4,251	350	12,175	221
1,690	685,439	1,065	301,580	137	26,213	461,513	16,380	30,021	415,112		2,700,889	2,626,766	74,123	4,755,393	222
17	8,565	7	3,500			2,331	2,200	81	2,328		3,695	3,695	1,367	32,353	223
1,247	513,670	2,207	520,436	456	63,041	527,527	7,400	16,611	459,165	44,351	4,517,694	4,480,919	66,775	6,823,721	224
5,284	2,552,756	1,940	485,185	444	91,578	1,534,840	47,118	96,802	1,437,442	3,478	58,145,432	57,578,149	567,283	69,762,072	225

jute and jute goods, 2; lapidary work, 2; lard, refined, 2; lead, smelting and refining, 2; malt, 1; matches, 2; mats and matting, 1; needles and pins, 1; oakum, 2; oil, castor, 1; oil, lard, 1; oil, linseed, 1; oilcloth, enameled, 2; oleomargarine, 1; paper patterns, 1; pencils, lead, 2; pens, steel, 1; photographs and graphophones, 2; plated and britannia ware, 2; printing materials, 2; pulp goods, 2; pumps, not including steam pumps, 1; regalia and society banners and emblems, 1; registers, cash, 1; rules, ivory and wood, 2; safes and vaults, 1; show cases, 1; starch, 1; sugar and molasses, refining, 1; wood, preserving, 1; wool hats, 2; wool pulling, 1; zinc, smelting and refining, 2.

BY SPECIFIED INDUSTRIES: 1900.

BAYONNE.

4,890	\$2,812,443	117	\$30,640	76	\$13,633	\$805,433	\$34,854	\$32,146	\$622,095	\$66,335	\$34,094,470	\$33,051,109	\$1,043,370	\$39,352,248	1
1	260			2	256	630	462		153	10	2,441	2,350	91	7,335	2
12	7,322					597	252	200	9,886		9,886	9,886	383	27,100	3
4	2,072					4,413	3,308	122	738	250	11,509	11,019	490	34,055	4
48	22,398	3	550			7,161	4,128	224	2,309		82,231	79,588	2,643	144,635	5
94	67,045					22,794	371	299	473	21,651	103,869	103,754	115	237,593	6
289	172,766					82,615	2,244	5,721	68,950	5,700	609,008	538,480	70,528	1,356,196	7
9	4,837	2	600			1,613	996	110	507		6,673	6,528	145	20,860	8
49	24,444	41	11,720			758	600	35	123		4,670	4,325	345	45,500	9
1	624	16	3,382	1	65	785	600	60	125		9,039	8,905	131	17,818	10
33	20,657					1,003	150	361	242	250	13,267	13,247	20	42,150	11
64	44,239	9	1,591			1,527	1,110	30	387		6,915	6,800	115	15,300	12
70	26,819					2,170	699	174	1,297		22,251	22,126	125	35,525	13
2,822	1,630,971			21	4,400	481,439	4,807	60,213	399,063	7,751	26,212,238	25,456,833	755,355	28,861,111	15
1	300	1	350			582	435	52	95		2,882	2,802	80	8,100	16
81	47,925			1	250	3,149	1,359	304	1,130	300	67,464	66,245	1,219	149,717	17
10	6,500			1	104	1,347	488	20	613	226	1,401	1,315	86	17,633	18
3	1,800					590	520		70		1,731	1,681	50	6,124	19
28	3,292					1,167	300	165	702		17,275	17,000	275	42,000	20
72	30,966	41	11,106			1,305	1,128		177		4,373	3,558	815	61,370	21
1	520			1	208	765	288		477		1,272	1,232	40	4,292	22
1,208	642,241	4	1,041	49	8,405	187,570	9,656	4,791	142,923	30,000	6,876,425	6,666,259	210,166	8,097,142	24

lumber, planing mill products, including sash, doors, and blinds, 2; mattresses and spring beds, 1; mineral and soda waters, 2; paints, 1; printing and publishing, book and job, 2; slaughtering and meat packing, wholesale, 1; tinsmithing, copper-smithing, and sheet-iron working, 1; toys and games, 1; typewriters and supplies, 1.

TABLE 8.—MANUFACTURES IN CITIES

CAMDEN.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 All industries	817	\$16,480,611	\$1,427,045	\$2,872,518	\$4,166,668	\$8,464,880	844	786	\$715,598	8,941	\$3,824,484
2 Bicycle and tricycle repairing	11	12,167	600	1,000	4,040	6,527	14			7	3,073
3 Blacksmithing and wheelwrighting	21	26,380	5,100	4,800	6,725	9,705	19	1	1,248	47	22,139
4 Boots and shoes, custom work and repairing	52	16,536	3,000	4,950	5,350	3,236	52			15	5,504
5 Boots and shoes, factory product	23	317,558	17,750	41,992	99,888	157,923	20	29	23,069	429	154,961
6 Bottling	14	65,537	1,250	1,950	15,640	46,697	14	7	4,120	34	14,860
7 Bread and other bakery products	61	119,511	18,800	23,525	30,990	51,196	62	17	7,130	101	45,613
8 Carpentering	45	70,797	4,400	11,940	9,120	45,337	50			141	84,602
9 Carpets, rug	3	3,100	3,400	600	850	1,250	3			5	1,790
10 Carriages and wagons	11	92,756	5,700	13,000	14,280	59,776	12	9	9,398	126	63,175
11 Cars and general shop construction and repairs by steam railroad companies.	3	258,648	6,075	121,840	48,152	82,581		31	22,628	397	229,736
12 Chemicals	9	781,166	100,000	96,200	294,629	240,337	7	37	31,323	142	82,864
13 Clothing, men's, custom work and repairing	26	23,025	2,750	1,500	3,540	15,235	29	2	800	45	18,568
14 Clothing, women's, dressmaking	69	12,199	1,875	1,200	6,179	2,945	73	1	416	72	22,186
15 Confectionery	10	23,784	2,700	9,116	11,995	6,073	21	7	3,036	28	9,113
16 Cooperage	4	3,920	1,440	1,400	355	725	4			9	3,253
17 Flouring and grist mill products	4	157,050	11,200	32,800	21,050	92,000	5	7	6,416	82	17,250
18 Foundry and machine shop products	10	1,565,379	161,700	125,500	226,874	1,061,305	10	58	60,509	1,042	542,066
19 Furniture, cabinetmaking, repairing, and upholstering	19	9,602	250	200	3,437	5,715	19	1	250	20	9,365
20 Ice, manufactured	3	821,847	84,900	124,690	139,080	23,177	1	3	2,384	17	9,244
21 Leather, tanned, curried, and finished	3	838,067	73,000	75,700	59,300	630,067		28	40,340	452	187,784
22 Lock and gun smithing	6	4,005	250	100	1,630	2,025	7			3	1,312
23 Looking-glass and picture frames	3	979			275	704	3	1	300	3	777
24 Lumber, planing mill products, including sash, doors, and blinds	4	251,035	7,500	32,500	35,035	176,000	5	18	19,760	115	60,936
25 Marble and stone work	4	28,410	7,800	1,750	2,800	17,060	4	1	380	31	12,076
26 Masonry, brick and stone	16	119,555	7,950	850	3,105	107,650	22	4	2,475	140	81,025
27 Millinery, custom work	18	10,855	1,150	3,000	200	6,505	19	1	56	15	4,015
28 Mineral and soda waters	3	5,500			4,500	1,000	3			5	2,340
29 Musical instruments and materials, not specified	3	7,375	700	1,900	2,800	1,975	3			7	3,000
30 Oilcloth, floor	4	1,479,800	155,000	421,348	490,503	412,949	2	24	37,112	430	210,318
31 Painting, house, sign, etc	38	44,285	2,730	2,755	10,140	23,660	40	1	800	117	72,433
32 Paints	3	431,216	25,000	50,000	55,675	300,641	2	8	10,180	51	25,233
33 Paper goods, not elsewhere specified	4	90,581	8,300	12,050	33,040	32,191	5	5	5,180	68	22,758
34 Paper hanging	24	41,192	2,700	2,400	2,274	33,818	24	2	1,342	71	89,787
35 Patent medicines and compounds	6	109,899	2,100	10,100	10,425	87,274	4	16	19,366	10	4,911
36 Paving and paving materials	4	73,400	1,500	2,400	27,200	42,300	6	8	8,000	180	46,452
37 Photography	7	7,250			4,375	2,875	8			7	2,843
38 Pickles, preserves, and sauces	3	622,284	60,000	105,000	106,500	350,781	2	62	67,572	263	67,338
39 Plastering and stuccowork	7	4,690	2,800	275	320	1,295	8			21	17,298
40 Plumbing, and gas and steam fitting	32	61,118	6,100	7,600	8,055	39,363	34	3	1,544	113	67,441
41 Printing and publishing, book and job	14	68,357	4,415	7,900	45,275	10,767	16	5	2,866	37	13,696
42 Printing and publishing, newspapers and periodicals	16	192,220	10,000	25,975	113,458	42,787	15	19	18,498	104	43,180
43 Roofing and roofing materials	5	43,906	2,500	2,400	8,951	30,055	4	5	4,135	27	8,216
44 Saddlery and harness	4	35,050	2,800	2,600	1,650	28,000	5			15	5,181
45 Ship and boat building, wooden	9	219,712	21,500	9,450	50,991	137,771	10	12	8,594	286	177,218
46 Slaughtering and meatpacking, wholesale	3	43,150	6,000	10,000	7,150	20,000	5	1	780	25	15,148
47 Soap and candles	3	433,120	22,000	35,500	16,000	359,620		20	19,014	38	15,814
48 Tinsmithing, coppersmithing, and sheet-iron working	25	89,699	8,735	20,500	8,950	51,514	27	8	2,305	82	47,316
49 Tobacco, cigars and cigarettes	24	28,839	4,875	6,100	2,390	15,474	26	4	980	49	18,532
50 Watch, clock, and jewelry repairing	12	13,465	2,800	2,300	1,900	6,965	14	1	400	7	3,616
51 Worsteds	5	2,093,062	54,000	301,790	638,054	1,699,218	7	13	23,204	958	241,416
52 All other industries ¹	98	4,507,628	558,950	606,072	1,467,273	1,375,338	99	266	252,733	2,572	939,547

Embraces awnings, tents, and sails, 2; bags, paper, 1; baskets, and rattan and willow ware, 1; bookbinding and blank book making, 1; boxes, cigar, 1; brass, 1; brick and tile, 2; brooms and brushes, 2; carpets and rugs, other than rag, 1; carriages and sleds, children's, 1; clothing, horse, 1; coffee and spice, roasting and grinding, 2; coffins, burial cases, and undertakers' goods, 1; cotton goods, 1; dyeing and cleaning, 2; dyeing and finishing textiles, 2; dye stuffs and extracts, 1; electrical apparatus and supplies, 2; electrical construction and repairs, 1; fancy articles, not elsewhere specified, 1; fertilizers, 1; files, 1; fireworks, 1; flavoring extracts, 2; food preparations, 1; fur hats, 1; furnishing goods, men's, 1; furniture, factory product, 2; gas, illuminating and heating, 2; glass, 1; gold and silver, leaf and foil, 1; hairwork, 1; hardware, 2; hosiery and knit goods, 1; ink, printing, 1; instruments, professional and scientific, 2; kaolin and other earth grinding, 1; kindling wood, 2; lime and cement, 2; liquors, malt, 2; lumber and timber products, 2; matches, 1; models and patterns, 2; monuments and

EAST ORANGE.

1 All industries	167	\$2,311,586	\$151,909	\$328,536	\$478,406	\$1,352,734	191	161	\$197,660	1,354	\$724,495
2 Bicycle and tricycle repairing	7	9,485	2,500	1,000	2,725	3,260	7			10	5,520
3 Blacksmithing and wheelwrighting	7	29,073	5,200	5,300	2,390	16,183	8			18	13,330
4 Boots and shoes, custom work and repairing	23	8,175	1,000	1,000	1,785	4,390	26			7	3,425
5 Bread and other bakery products	7	45,434	700	2,100	13,130	24,504	12	3	970	58	84,150
6 Carpentering	20	92,080	9,850	15,695	13,435	53,100	29	1	1,200	177	110,031

BY SPECIFIED INDUSTRIES: 1900—Continued.

CAMDEN.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
6,546	\$3,289,453	2,115	\$493,605	290	\$41,376	\$1,487,751	\$114,274	\$58,317	\$909,243	\$405,917	\$11,499,151	\$11,194,586	\$304,565	\$20,451,874	1
7	8,073					1,673	871	28	574	200	6,722	6,491	281	17,579	2
47	22,169					2,955	2,114	204	637		17,716	16,383	1,333	69,271	3
15	5,804					3,517	3,040	146	391		18,135	17,636	497	50,882	4
274	118,878	146	34,566	9	1,517	21,888	2,412	489	13,474	5,013	365,241	361,951	3,290	609,455	5
82	14,600			2	260	8,878	3,417	70	5,391		71,068	70,605	463	117,699	6
92	43,563	8	1,913	1	137	7,796	4,247	814	2,785		104,890	159,072	5,314	309,226	7
141	34,602					47,939	1,727	194	1,034	43,784	191,831	191,724	157	399,779	8
8	1,290	2	500			108	84	16	3		2,405	2,395	10	7,400	9
126	63,175					13,420	5,065	439	7,516		71,090	69,117	1,973	218,990	10
395	229,139	2	507			103,501		1,350	23	102,218	230,300	220,146	10,054	586,755	11
142	32,864					15,785	2,626	2,465	10,644		184,331	157,635	26,696	443,058	12
81	15,922	13	2,542	1	104	4,563	2,842	114	607	1,000	30,618	30,098	520	75,100	13
12	7,482	60	14,704			3,615	3,015	56	544		22,307	21,753	554	81,927	14
17	8,036	6	1,082			2,573	1,895	92	586		60,365	60,079	786	97,944	15
9	3,253					281	120	86	125		12,394	12,371		19,384	16
32	17,250					5,408	800	683	4,415		395,152	391,952	3,200	462,454	17
1,041	541,910			1	156	148,576	927	8,323	188,886	435	773,943	714,262	64,681	1,924,401	18
19	9,226	1	139			1,591	1,370	9	212		13,609	13,428	181	33,179	19
17	9,244					7,323		640	7,183		15,499	3,266	12,233	53,318	20
443	185,364			9	1,900	67,039	3,000	1,207	62,832		1,175,425	1,169,220	6,205	1,515,935	21
2	1,000	1	312			558	508	4	46		2,389	2,274	115	8,968	22
3	777					289	274	15	15		2,047	2,017	30	5,316	23
115	60,936					18,768	3,150	1,563	9,050		216,670	216,440	230	371,300	24
31	12,076					9,362		193	1,164	8,000	14,464	14,164	300	46,548	25
140	31,025					93,120	179	184	2,237	90,500	212,565	212,298	267	457,302	26
5	2,840	15	4,015			1,783	1,387	78	318		14,237	14,010	227	31,310	27
7	8,000					790	265	320	205		5,997	5,891	106	19,040	28
428	210,026			2	292	61,344		5,507	55,837		989,976	970,976	19,000	1,638,556	30
117	72,433					3,901	2,060	120	1,056	65	49,361	49,192	169	178,831	31
51	25,233					26,214	144	1,000	15,070	10,000	685,778	628,258	7,520	698,303	32
31	13,353	31	7,900	6	1,500	9,162	2,740	230	6,192		43,584	42,276	1,308	108,239	33
71	39,737					3,975	2,859	99	1,007		47,232	46,959	273	119,160	34
7	4,133	3	728			19,319	3,043	115	16,156		13,225	12,166	1,059	46,241	35
129	46,320			1	132	4,358	1,060	143	3,150		37,758	37,258	500	111,846	36
3	1,468	4	1,375			1,602	1,118	4	480		5,055	4,913	142	15,615	37
176	61,851	37	25,737			92,372	30	1,533	90,759		683,616	679,991	3,625	935,358	38
21	17,293					237	43	46	46		8,943	8,943		32,742	39
117	67,285			1	156	6,160	2,460	329	2,945	426	105,240	104,505	735	222,603	40
35	13,334	2	312			3,644	1,213	212	1,664	450	19,195	18,226	969	58,252	41
95	41,940	1	200	8	1,031	40,541	3,952	427	5,333	30,809	33,872	31,567	2,305	163,204	42
27	8,216					4,675	676	103	3,891		40,622	40,207	415	80,616	43
15	5,181					567	216	131	220		10,175	10,090	85	27,254	44
266	177,218					21,452	11,920	373	9,154		142,778	139,513	3,265	409,500	45
25	15,148					2,235		460	1,775		422,653	420,911	1,742	456,418	46
27	13,033	10	2,620	1	156	14,564	270	327	13,467		96,517	94,681	1,836	181,735	47
81	47,199			1	117	8,910	2,155	530	2,211	4,014	89,232	88,452	780	190,556	48
28	10,605	19	7,660	2	267	9,076	1,785	193	7,093		25,346	25,372	274	59,505	49
6	3,403			1	208	1,031	612	106	813		3,255	3,142	113	15,250	50
232	102,563	566	120,698	160	18,150	201,940	4,300	3,690	149,599	44,351	1,406,369	1,388,327	17,542	2,090,994	51
1,360	653,299	1,140	266,287	72	14,981	358,206	21,674	22,230	250,000	64,252	2,234,154	2,188,348	95,306	4,510,337	52

tombstones, 1; oleomargarine, 1; optical goods, 2; paper and wood pulp, 1; paper hangings, 1; pens, steel, 1; perfumery and cosmetics, 1; photolithographing and photoengraving, 1; printing materials, 1; refrigerators, 2; rubber and elastic goods, 2; saws, 1; sewing machine repairing, 1; sewing machines and attachments, 1; shipbuilding, iron and steel, 1; show cases, 1; slaughtering, wholesale, not including meat packing, 1; smelting and refining, not from the ore, 1; stamped ware, 1; starch, 1; stationary goods, not elsewhere specified, 1; steam fittings and heating apparatus, 1; steam packing, 2; surgical appliances, 1; toys and games, 1; trunks and valises, 1; upholstering materials, 2; varnish, 1; washing machines and clothes wringers, 1; window shades, 1; wood, turned and carved, 1; woodenware, not elsewhere specified, 1; wool scouring, 1.

EAST ORANGE.

1,166	\$669,299	187	\$55,146	1	\$50	\$350,162	\$23,939	\$9,358	\$300,011	\$11,854	\$1,583,435	\$1,560,273	\$17,157	\$3,463,141	1
10	5,520					1,376	1,399	55	422		10,363	10,214	149	27,765	2
18	13,330					2,951	1,080	146	635		12,011	11,570	441	44,915	3
7	3,425					2,954	2,560	63	331		7,865	7,648	217	30,039	4
52	32,236	6	1,914			6,160	4,200	170	1,790		81,327	79,244	2,083	153,256	5
177	110,034					6,672	1,173	655	2,379	1,960	234,055	233,051	1,004	413,948	6

TABLE 8.—MANUFACTURES IN CITIES

EAST ORANGE—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
7 Carriages and wagons.....	3	\$36,000	\$18,500	\$3,000	\$2,800	\$18,100	4	2	\$900	37	\$24,140
8 Clothing, men's, custom work and repairing.....	13	17,402	625	600	1,995	14,182	14			20	18,161
9 Clothing, women's, dressmaking.....	20	26,445	8,500	3,000	4,840	15,105	20			51	15,923
10 Furniture, cabinetmaking, repairing, and upholstering.....	9	11,635	800	3,500	1,860	5,975	9			7	8,947
11 Masonry, brick and stone.....	5	29,845	3,800	2,150	3,510	20,385	6			62	48,954
12 Painting, house, sign, etc.....	9	71,985	7,200	11,400	4,085	49,300	9	5	6,050	135	68,975
13 Plumbing, and gas and steam fitting.....	11	70,475	17,000	13,200	6,225	40,050	10	4	3,886	110	59,442
14 Saddlery and harness.....	4	4,895			920	3,975	5			4	2,015
15 Watch, clock, and jewelry repairing.....	5	4,525			1,435	3,090	5			4	2,420
16 All other industries ¹	24	1,847,228	86,234	266,591	413,271	1,081,130	22	146	185,154	654	829,658

¹ Embraces awnings, tents, and sails, 1; confectionery, 1; druggists' preparations, not including prescriptions, 1; dyeing and cleaning, 2; electrical apparatus and supplies, 1; electrical construction and repairs, 2; foundry and machine shop products, 1; fur hats, 2; instruments, professional and scientific, 1; ironwork, architectural and ornamental, 1; lumber, planing mill products, including sash, doors, and blinds, 1; mattresses and spring beds, 1; millinery, custom work, 1;

ELIZABETH.

1 All industries.....	419	\$15,063,645	\$1,561,044	\$2,835,401	\$3,520,742	\$7,748,358	444	564	\$731,152	10,497	\$6,024,497
2 Bicycle and tricycle repairing.....	10	12,890	800	1,950	3,315	6,825	11			8	8,749
3 Blacksmithing and wheelwrighting.....	22	37,902	5,932	10,200	6,075	14,675	24			36	22,405
4 Boots and shoes, custom work and repairing.....	46	18,887	4,850	5,050	3,695	5,292	46			15	6,758
5 Bottling.....	3	13,000	1,500	5,350	2,100	4,050	3			4	1,825
6 Bread and other bakery products.....	35	134,875	16,700	64,400	16,060	37,715	39	1	300	95	44,655
7 Carpentering.....	26	100,760	11,650	18,075	8,335	62,700	29	2	288	193	122,625
8 Carriages and wagons.....	10	510,980	47,900	118,210	159,000	215,240	10	25	43,700	192	138,668
9 Chemicals.....	3	671,453	25,000	150,000	123,719	372,733	3	3	4,165	55	23,620
10 Clothing, men's, custom work and repairing.....	23	24,235	1,500	500	2,235	20,000	25			44	22,511
11 Clothing, women's, dressmaking.....	13	18,435	3,650	3,700	1,195	4,890	15			20	7,848
12 Confectionery.....	8	70,455	21,000	23,000	15,700	10,755	9	2	288	23	10,435
13 Electrical construction and repairs.....	8	8,075			1,825	1,250	4			6	2,955
14 Foundry and machine shop products.....	16	4,232,150	517,723	448,445	942,891	2,382,901	12	211	297,023	1,960	1,153,812
15 Furniture, cabinetmaking, repairing, and upholstering.....	7	16,685	1,000	2,000	1,885	11,800	7			11	6,412
16 Lumber, planing mill products, including sash, doors, and blinds.....	6	37,800	3,600	9,100	9,600	15,500	7	1	300	43	24,890
17 Masonry, brick and stone.....	14	86,700	7,400	14,550	10,325	54,425	16	2	1,450	209	143,538
18 Millinery, custom work.....	15	28,827	4,900	15,700	500	7,727	19	1	600	15	3,955
19 Painting, house, sign, etc.....	17	41,792	5,700	6,550	3,677	26,865	24	1	624	105	65,080
20 Photography.....	3	419,748	11,150	74,187	44,135	200,276	7	3	7,875	73	28,514
21 Plumbing, and gas and steam fitting.....	22	99,855	6,800	9,100	10,300	74,655	24	10	4,728	187	75,070
22 Printing and publishing, book and job.....	5	291,350	15,750	36,250	187,800	51,550	6	15	17,885	195	98,150
23 Printing and publishing, newspapers and periodicals.....	6	77,970	5,600	1,000	47,070	24,400	10	15	15,144	55	31,081
24 Roofing and roofing materials.....	3	151,995	30,000	24,900	30,020	67,075	2	9	10,311	51	20,580
25 Saddlery and harness.....	7	25,095	1,400	1,600	2,235	19,860	9	1	800	8	4,044
26 Shirts.....	3	30,000	2,400	15,400	6,500	5,700	3	1	320	156	45,728
27 Tinsmithing, coppersmithing, and sheet-iron working.....	6	22,350	1,200	2,500	7,600	11,050	8	1	334	22	8,886
28 Tobacco, cigars and cigarettes.....	7	12,235	4,000	2,000	660	5,575	7			7	3,384
29 Watch, clock, and jewelry repairing.....	11	4,435			2,990	1,445	11			6	4,216
30 All other industries ¹	64	8,380,609	803,019	1,767,651	1,808,600	3,941,336	54	200	325,067	6,758	3,893,767

¹ Embraces awnings, tents, and sails, 2; axle grease, 1; bookbinding and blank book making, 1; boot and shoe uppers, 1; boxes, wooden packing, 1; brass castings and brass finishing, 1; bridges, 1; carpets and rugs, other than rag, 1; carpets, rag, 1; cars and general shop construction and repairs by steam railroad companies, 1; clothing, men's, factory product, 2; dyeing and cleaning, 2; electrical apparatus and supplies, 1; fertilizers, 1; files, 1; flavoring extracts, 1; flouring and grist mill products, 1; gas, illuminating and heating, 1; hat and cap materials, 1; hosiery and knit goods, 1; ice, manufactured, 1; ironwork, architectural and ornamental, 1; jewelry, 1; leather, tanned, curried, and finished, 2; liquors, malt, 2; lock and gun smithing, 2; looking-glass and picture frames, 2; marble and

HOBOKEN.

1 All industries.....	399	\$8,331,015	\$885,595	\$1,057,447	\$1,967,094	\$4,420,879	432	420	\$510,166	6,443	\$3,076,235
2 Awnings, tents, and sails.....	3	6,900			1,300	5,600	3			9	4,152
3 Bicycle and tricycle repairing.....	6	9,550			1,950	7,600	6			5	2,261
4 Blacksmithing and wheelwrighting.....	14	64,400	25,700	9,500	9,700	19,500	15	1	1,200	36	23,232
5 Boots and shoes, custom work and repairing.....	29	18,145			2,095	16,050	29			16	7,268
6 Bottling.....	9	91,100	1,800	5,000	17,300	67,000	10	2	4,000	15	8,040
7 Bread and other bakery products.....	25	274,800	26,800	141,000	24,500	82,500	27	42	27,880	147	89,964
8 Carpentering.....	9	62,250	6,500	13,000	6,750	31,000	12			151	106,464
9 Clothing, men's, custom work and repairing.....	25	59,540	2,000	5,000	3,690	48,850	26	1	400	45	25,470
10 Clothing, women's, dressmaking.....	6	28,005	3,000	3,000	3,605	18,500	7			69	15,852
11 Clothing, women's, factory product.....	3	42,764			5,650	37,114	5	10	7,600	84	29,812

BY SPECIFIED INDUSTRIES: 1900—Continued.

EAST ORANGE—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
37	\$24,140					\$2,246	\$1,200	\$326	\$720		\$18,625	\$18,085	\$540	\$57,740	7
19	12,711	1	\$450			4,857	2,964	110	1,147	\$686	17,730	17,430	300	47,931	8
5	8,292	45	12,581	1	\$50	4,280	8,465	163	662		80,115	29,790	325	75,593	9
7	3,947					5,749	1,083	111	555	4,000	8,776	8,685	90	29,314	10
62	43,954					1,079	180	89	660	150	144,125	143,970	155	207,373	11
133	62,775	2	600			5,203	1,678	225	3,300		33,824	33,364	460	135,335	12
110	59,442					4,205	1,530	545	2,130		138,132	137,812	320	250,705	13
4	2,015					1,168	1,003	20	140		3,143	3,078	45	10,780	14
4	2,426					1,200	1,050	95	115		1,938	1,878	60	11,205	15
521	290,052	133	39,601			300,652	4,374	6,645	284,525	5,108	841,407	830,439	10,968	1,967,192	16

mineral and soda waters, 1; monuments and tombstones, 1; paving and paving materials, 1; printing and publishing, newspapers and periodicals, 2; roofing and roofing materials, 1; tobacco, cigars and cigarettes, 1; varnish, 1.

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9,650	\$5,776,698	856	\$234,398	61	\$13,401	\$1,351,411	\$78,081	\$63,911	\$986,875	\$217,594	\$9,882,821	\$9,664,107	\$218,714	\$20,546,468	1
8	3,749					2,601	1,555	62	984		8,763	8,712	51	21,061	2
36	22,405					2,897	2,000	162	535	150	22,428	21,451	977	70,192	3
15	6,758					4,702	3,932	151	569		14,817	14,365	452	44,535	4
4	1,825					1,131	48	110	978		47,783	47,776	7	53,940	5
80	41,161	9	2,300	6	1,224	18,373	5,089	1,030	7,251		168,762	163,122	5,640	288,447	6
192	122,443			1	182	41,494	630	597	4,127	36,140	220,513	219,693	820	436,629	7
191	138,368	1	300			37,736	597	4,191	32,828	120	190,240	181,623	8,617	478,855	8
65	23,020					3,086	75	681	2,330		81,026	71,511	12,515	123,587	9
38	20,329	6	2,182			5,751	3,492	95	1,089	1,105	35,974	35,508	466	89,524	10
8	2,027	17	5,821			1,202	578	196	423		4,070	3,860	210	23,570	11
11	7,131	12	3,804			5,458	1,920	703	2,835		26,898	25,746	1,152	58,308	12
6	2,955					359	236		153		2,735	2,540	195	8,605	13
1,941	1,149,256	19	4,056			451,042	11,650	12,425	378,415	43,519	2,092,693	2,041,786	50,907	4,444,034	14
10	6,196	1	216			2,842	2,400	72	364		9,089	8,999	90	26,162	15
48	24,390					1,278	40	418	825		43,024	41,990	1,031	85,900	16
209	143,588					9,911	240	490	5,651	3,500	145,024	144,874	150	347,769	17
		15	3,955			2,232	1,689	83	510		13,511	13,344	167	35,062	18
105	65,050					4,426	2,306	274	1,846		31,498	31,431	67	144,695	19
40	15,864	33	12,750			30,022	1,050	508	28,461		57,233	56,593	635	152,588	20
136	75,408			1	208	7,064	3,693	533	2,833		103,470	102,166	1,304	256,078	21
132	31,502	63	16,648			18,096	1,422	1,007	15,667		92,844	90,290	2,551	312,766	22
52	30,145	2	728	1	208	15,627	1,773	399	11,035	2,400	19,134	17,977	1,157	114,797	23
51	20,580					5,088	174	476	4,438		192,448	191,402	1,046	258,330	24
8	4,614					1,580	1,116	60	404		7,839	7,739	160	24,013	25
7	4,320	140	40,728	9	680	1,118		218	900		837	837	630	55,500	26
13	7,380	8	1,246	1	260	1,168	721	52	395		10,532	10,331	201	30,961	27
7	3,384					3,321	780	67	2,474		5,605	5,495	110	17,764	28
6	4,216					1,911	1,514	35	212	150	2,029	1,944	85	12,375	29
6,181	3,742,964	530	140,164	42	10,639	674,335	27,255	43,371	478,229	125,480	6,228,932	6,101,637	127,295	12,629,921	30

stone work, 2; mattresses and spring beds, 2; millinery and lace goods, 1; mineral and soda waters, 1; models and patterns, 1; monuments and tombstones, 1; oil, lard, 1; oil, not elsewhere specified, 2; optical goods, 1; paints, 2; paper and wood pulp, 1; paper hanging, 1; paving and paving materials, 2; plastering and stucco work, 1; rubber and elastic goods, 1; sausage, 1; sewing machines and attachments, 1; ship and boat building, wooden, 1; shipbuilding, iron and steel, 1; silversmithing, 1; sporting goods, 1; tools, not elsewhere specified, 1; vinegar and cider, 1; window shades, 1; wood, turned and carved, 1.

HOBOKEN.

4,698	\$2,665,920	1,377	\$331,755	368	\$78,560	\$378,470	\$158,295	\$39,236	\$655,036	\$25,903	\$5,724,626	\$5,612,488	\$112,138	\$12,092,872	1
6	3,320	3	832			692	612		80		3,840	3,810	30	12,400	2
5	2,264					1,208	1,130		78		5,145	5,055	90	15,250	3
36	23,232					1,705	784	510	411		17,135	16,235	950	61,425	4
16	7,268					3,381	3,048		393		11,820	11,425	395	42,300	5
15	8,040					19,042	2,172	175	16,695		137,038	136,439	599	200,450	6
140	88,884	4	700	3	380	12,795	9,188	2,010	1,597		301,084	295,234	5,850	524,900	7
151	106,404					2,344	1,203	623	611		157,035	156,460	575	307,800	8
42	25,086			3	384	7,020	6,375	75	570		46,965	46,520	445	111,270	9
2	1,600	61	13,432	6	820	2,071	1,486	100	485		22,060	21,925	135	55,550	10
6	3,120	78	26,692			6,952	1,390	12	5,550		65,990	65,650	340	135,000	11

TABLE 8.—MANUFACTURES IN CITIES

HOBOKEN—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
12 Confectionery	8	\$55,900	\$7,000	\$10,500	\$9,900	\$28,500	10	10	\$6,120	41	\$17,940
13 Cooperage	5	64,800	15,500	19,500	800	29,000	7			28	18,800
14 Cork, cutting	3	88,500	3,000	7,000	19,500	59,000	2	13	10,100	137	39,800
15 Dyeing and cleaning	3	9,964	2,000	4,000	1,050	2,914	8	1	302	7	2,871
16 Fancy articles, not elsewhere specified	3	195,000	6,000	16,500	40,500	182,000	6	25	47,000	186	67,594
17 Foundry and machine shop products	15	1,238,745	74,000	107,500	370,153	687,092	14	55	79,708	913	561,585
18 Furniture, cabinetmaking, repairing, and upholstering	6	8,800	1,000	1,000	800	6,000	6			7	3,830
19 Hats and caps, not including fur hats and wool hats	4	84,400	5,000	25,000	16,400	38,000	6	4	2,600	207	40,145
20 Ironwork, architectural and ornamental	3	120,600	32,600	22,700	20,100	46,200	2	3	5,200	116	59,952
21 Lock and gun smithing	7	7,250			1,950	5,800	7			7	3,180
22 Looking-glass and picture frames	4	8,200			500	7,700	4			10	4,960
23 Lumber, planing mill products, including sash, doors, and blinds	3	122,443	48,500	13,250	28,283	37,410	3	3	4,900	46	29,685
24 Marble and stone work	5	140,900	26,500	5,600	44,300	64,500	9	2	2,000	81	63,352
25 Masonry, brick and stone	5	193,000	3,000	8,000	2,000	185,000	6			79	73,400
26 Mattresses and spring beds	3	10,575	1,000	8,000	275	6,800	3			8	3,150
27 Millinery, custom work	5	27,225	15,000	5,000	225	7,000	6			10	3,408
28 Mineral and soda waters	11	82,800	18,000	33,000	11,300	25,500	2	2	1,800	43	24,868
29 Painting, house, sign, etc	12	48,425	3,500	8,000	3,375	33,550	12	3	2,700	65	45,064
30 Paper and wood pulp	3	195,500	14,500	15,000	181,000	35,000	4	8	7,800	106	54,560
31 Photography	8	16,847			11,460	5,387	7	2	2,250	33	13,232
32 Plumbing, and gas and steam fitting	14	53,600	1,200	3,000	5,400	44,000	18	3	2,800	80	58,712
33 Printing and publishing, book and job	10	26,740			18,000	8,740	13			20	11,669
34 Printing and publishing, newspapers and periodicals	3	87,800	2,700	2,000	48,400	34,700	1	26	16,350	62	43,800
35 Roofing and roofing materials	8	36,200	3,500	7,000	3,700	22,000	11			59	29,608
36 Saddlery and harness	4	8,100			1,100	7,000	4			3	2,050
37 Silk and silk goods	3	239,417	30,250	36,541	45,500	127,126	9	4	7,500	244	30,328
38 Tinsmithing, coppersmithing, and sheet-iron working	6	45,600	4,000	8,000	7,500	26,100	5	2	1,800	50	24,376
39 Tobacco, cigars and cigarettes	36	54,799	2,650	5,800	2,900	43,449	32			44	22,852
40 Watch, clock, and jewelry repairing	14	31,900	500	800	4,950	25,650	14			11	6,968
41 All other industries ¹	56	4,365,031	508,895	508,256	1,039,833	2,308,047	56	198	268,661	3,160	1,351,468

¹ Embraces babbitt metal and solder, 1; baking and yeast powders, 2; boot and shoe cut stock, 1; boot and shoe findings, 1; carriages and wagons, 2; chemicals, 1; clothing, men's, factory product, 1; coffins, burial cases, and undertakers' goods, 1; druggists' preparations, not including prescriptions, 1; dyeing and finishing textiles, 1; electrical construction and repairs, 2; fireworks, 2; food preparations, 1; furniture, factory product, 2; glue, 1; hairwork, 1; hat and cap materials, 1; hosiery and knit goods, 2; ink, printing, 1; instruments, professional and scientific, 1; leather, tanned, curried, and finished, 1; lime and cement, 1;

JERSEY CITY.

1 All industries	965	\$80,327,678	\$5,743,192	\$7,865,798	\$28,767,810	\$37,950,878	962	1,676	\$2,095,778	19,499	\$9,126,042
2 Bicycle and tricycle repairing	9	17,020	5,000	3,135	2,210	6,675	9			9	3,461
3 Blacksmithing and wheelwrighting	33	65,630	15,550	19,180	11,950	18,950	33			48	26,166
4 Boots and shoes, custom work and repairing	56	16,414	1,470	3,850	5,021	6,073	56			20	8,017
5 Bottling	12	56,513	5,400	7,250	4,605	39,258	14			22	12,792
6 Boxes, fancy and paper	4	223,768	28,000	68,000	55,492	72,276	3	19	18,288	408	104,625
7 Brass castings and brass finishing	8	950,883	49,506	369,299	186,256	354,822	7	17	15,786	149	83,915
8 Bread and other bakery products	70	285,655	54,500	111,600	41,155	78,400	70	7	3,920	234	144,199
9 Carpentering	37	431,097	35,430	43,400	60,705	291,562	43	10	12,268	770	441,071
10 Carriages and wagons	19	246,600	53,150	51,450	44,800	97,200	21	3	2,446	170	101,095
11 Cars and general shop construction and repairs by steam railroad companies	3	1,408,447	303,836	607,270	187,554	309,787		86	64,799	2,272	1,212,107
12 Chemicals	9	967,193	162,321	149,068	225,743	430,061	7	26	40,644	267	141,720
13 China decorating	4	8,400	1,800	1,000	4,300	1,300	3			44	20,604
14 Clothing, men's, custom work and repairing	34	46,251	8,500	8,500	4,630	29,621	34	4	4,080	61	38,731
15 Clothing, women's, dressmaking	31	43,835	4,500	6,700	5,325	27,310	35	5	2,350	128	26,300
16 Clothing, women's, factory product	5	9,150	1,350	2,600	3,500	1,700	8	1	624	102	18,178
17 Confectionery	21	32,185	3,500	8,500	8,250	11,935	24	5	1,260	42	16,600
18 Cooperage	8	263,457	36,500	55,649	42,341	128,967	7	15	25,028	265	122,009
19 Dyeing and cleaning	9	22,795	6,700	12,100	2,495	1,500	10	2	2,800	17	8,885
20 Electrical apparatus and supplies	5	499,903	17,200	37,900	84,326	360,477	1	80	56,195	308	107,910
21 Electrical construction and repairs	5	21,500	1,500	3,500	4,900	11,600	5	1	936	15	9,020
22 Fancy articles, not elsewhere specified	3	20,410	1,000	500	10,010	8,900	6	4	2,756	26	9,265
23 Flavoring extracts	8	1,300			450	850	2	2	400	1	780
24 Food preparations	8	580,562	30,400	109,384	72,005	367,873	7	52	85,254	219	90,566
25 Foundry and machine shop products	30	2,930,064	251,533	171,945	768,544	1,738,037	21	130	157,744	1,029	575,212
26 Furniture, cabinetmaking, repairing, and upholstering	9	23,940	6,000	9,750	4,140	4,050	9			13	10,051
27 Gas and lamp fixtures	3	65,251	4,000	17,000	23,405	20,846	4			42	19,092
28 Gold and silver, leaf and foil	6	9,405	900	1,650	4,615	2,300	6	4	2,940	39	20,428
29 Hairwork	3	2,330			1,130	1,200	3	1	624	19	4,964
30 Ironwork, architectural and ornamental	6	261,366	13,700	10,877	19,363	217,426	6	30	29,037	184	131,594
31 Lime and cement	3	23,310			2,900	20,910	2	7	7,900	10	5,030

BY SPECIFIED INDUSTRIES: 1900—Continued.

HOBOKEN—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
24	\$12,980	17	\$4,960			\$4,990	\$3,960	\$425	\$605		\$31,120	\$30,485	\$685	\$81,600	12
28	18,800					2,792	156	575	2,061		52,845	52,825	20	98,750	18
45	18,800	92	21,000			5,650	2,500	150	3,000		130,545	128,720	1,825	208,000	14
4	1,886	8	985			1,232	120	75	532	\$505	2,065	1,929	187	10,848	15
168	61,000	28	6,594			7,645	6,165	850	1,180		246,557	245,117	1,440	422,000	16
918	561,585					115,761	19,875	8,401	87,485		662,243	644,118	18,125	1,591,904	17
7	8,830					707	612		95		4,540	4,500	40	16,200	18
44	19,600	162	20,395	1	\$150	8,685	2,560	500	625		95,805	94,595	1,210	160,500	19
116	59,952					7,317	96	880	6,841		185,090	179,617	5,473	278,075	20
5	2,780			2	400	1,283	1,148		85		4,315	4,145	170	16,600	21
10	4,960					1,769	1,664		105		4,995	4,910	85	18,900	22
44	29,373			2	312	8,724		1,844	2,880		61,145	60,605	540	113,600	23
84	63,852					7,625	1,880	1,135	5,110		68,240	62,110	1,180	174,500	24
79	78,400					16,900	800	200	11,400	5,000	98,800	98,800		216,000	25
6	2,896	1	144	1	120	480	240	75	165		5,500	5,460	40	12,900	26
48	24,888	10	8,408			1,625	1,190	200	235		9,415	9,290	125	21,950	27
65	45,064					1,929	762	645	522		28,012	27,302	710	83,750	28
95	51,860	11	3,200			8,663	8,026	165	472		24,381	24,196	185	96,175	29
21	10,052	11	3,048	1	132	11,760	4,400	800	6,550		82,400	51,900	30,500	161,000	30
79	58,562					4,119	8,204	75	840		58,481	53,231	250	80,880	31
20	11,689			1	150	4,104	8,648	52	404		41,692	40,902	790	147,500	32
62	43,800					2,249	1,881	10	355		18,841	12,823	518	44,799	33
55	28,560	4	1,048			4,258	1,900	548	1,810		29,351	27,321	2,030	113,275	34
8	2,050					5,657	4,977	125	555		33,200	32,550	650	86,760	35
92	40,400	92	30,568	60	9,860	1,200	1,110		90		4,225	4,165	60	12,400	36
50	24,876					19,196		1,316	2,825	15,055	95,556	93,464	2,092	221,920	37
39	21,925	5	927			1,409	764	275	370		17,750	17,640	210	68,800	38
11	6,968					12,091	2,921	80	9,093		33,729	33,569	160	96,619	39
2,077	1,091,294	795	193,822	288	66,352	2,499	2,248	15	286		10,200	10,030	170	37,950	40
						568,998	58,092	17,413	483,150	5,843	2,830,925	2,797,666	33,350	5,984,587	41

lithographing and engraving, 1; millinery and lace goods, 2; mirrors, 1; muelage and paste, 1; musical instruments, pianos and materials, 1; paints, 1; paper hangings, 1; paper patterns, 1; patent medicines and compounds, 2; pencils, lead, 1; pickles, preserves, and sauces, 1; plastering and stuccowork, 1; pocketbooks, 1; ship and boat building, wooden, 2; shipbuilding, iron and steel, 2; shirts, 1; soap and candles, 1; steam fittings and heating apparatus, 1; surgical appliances, 1; tools, not elsewhere specified, 1; toys and games, 1; varnish, 1; wirework, including wire rope and cable, 1; wood, turned and carved, 1.

JERSEY CITY.

14,996	\$3,066,109	4,139	\$995,646	364	\$64,287	\$6,528,570	\$427,126	\$258,104	\$5,509,431	\$333,906	\$52,254,465	\$51,495,525	\$758,940	\$77,225,116	1
9	8,461					873	459	96	318		11,303	11,033	220	25,014	2
47	25,016			1	150	5,997	4,080	490	1,027		32,177	30,437	1,740	104,085	3
20	8,017					6,940	6,167	56	492	225	22,718	21,979	739	67,870	4
22	12,792					7,296	2,700	947	3,619		66,917	66,467	450	108,899	5
85	34,425	323	70,200			15,533		1,738	18,795		109,635	107,633	2,052	258,024	6
147	88,615			2	800	24,600	2,709	1,926	19,474	500	718,897	706,894	12,003	830,728	7
219	138,667	15	5,532			37,760	22,805	3,737	11,218		381,804	369,731	12,073	748,497	8
770	441,071					129,270	3,138	1,713	45,561	78,353	705,884	700,510	5,374	1,394,309	9
167	100,627			3	468	11,837	1,923	2,621	5,343	2,000	123,432	119,606	3,826	321,491	10
2,267	1,210,547	5	1,560			46,574		8,577	37,997		1,289,401	1,260,273	29,123	2,612,881	11
266	141,564	1	156			112,090	4,129	8,814	96,397	2,750	1,682,746	1,619,243	63,503	2,079,357	12
16	10,148	28	10,456			1,979	1,056	77	846		8,888	8,126	862	36,800	13
58	37,481	1	800	2	450	12,429	8,193	159	2,732	1,325	87,561	86,836	725	182,030	14
		128	20,800			8,224	6,792	32	1,400		86,145	86,130	15	101,640	15
		101	17,978	1	200	1,147	454	46	647		1,764	1,270	491	31,800	16
30	13,654	12	2,946			15,955	11,846	803	3,806		71,243	69,916	1,327	154,323	17
208	121,609			2	400	24,492	1,800	4,412	18,289		292,230	290,297	1,933	670,338	18
11	7,335	6	1,550			2,721	2,721	451	1,312		3,470	2,845	625	24,465	19
208	80,902	60	17,608	45	9,400	47,312	5,800	651	40,861		277,463	273,018	4,445	546,458	20
15	9,020					3,008	1,440	243	1,320		18,230	17,985	235	39,230	21
18	7,265	8	2,000			1,113	480	33	600		19,067	18,952	115	30,250	22
1	780					697	534	163	350		8,850	8,285	65	7,700	23
121	64,035	84	24,663	14	1,868	123,464	1,804	3,042	118,622		379,551	372,533	7,018	721,050	24
988	564,252	30	10,752	1	208	132,184	16,506	9,199	106,479		725,379	694,605	30,774	1,812,625	25
13	10,051					2,501	938	298	1,263		11,138	10,718	420	31,597	26
42	19,092					1,584	108	765	661		39,106	38,109	997	74,220	27
19	13,620	20	6,808			1,077	576	56	1,045		25,857	25,657	200	58,267	28
4	1,664	15	3,270			654	551		400		7,405	7,235	170	16,850	29
184	181,594					24,650	5,300	3,709	13,211	2,400	208,624	205,879	2,745	463,321	30
10	5,080					4,837	1,560	45	3,232		24,879	24,731	148	48,384	31

TABLE 8.—MANUFACTURES IN CITIES

JERSEY CITY—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
Liquors, malt	4	\$2,332,000	\$66,000	\$608,000	\$44,500	\$1,213,500	1				
Lock and gun smithing	3	1,450			1,050	400	3				
Lumber, planing mill products, including sash, doors, and blinds.	9	1,384,603	170,000	133,482	332,203	743,903	6	45	60,725	514	253,442
Masonry, brick and stone	10	142,350	19,600	13,320	8,130	101,300	15	4	8,900	221	149,279
Millinery and lace goods	7	29,375	2,325	6,900	9,675	9,975	10	1	665	69	28,312
Millinery, custom work	7	23,870	1,200	8,000	1,170	13,500	8	1	780	14	5,392
Mineral and soda waters	17	111,165	11,800	24,200	33,015	37,150	20	3	1,508	69	88,078
Models and patterns	5	5,950			2,900	3,050	5			11	6,282
Monuments and tombstones	6	33,600	5,600	4,100	2,100	26,800	8	4	3,544	25	22,694
Musical instruments and materials, not specified.	3	493,800	13,000	82,000	139,000	264,800	3	20	19,911	321	180,733
Painting, house, sign, etc	31	74,420	8,300	9,320	9,463	47,337	35	3	876	183	117,606
Paints	3	323,650	23,000	43,483	23,556	233,506	2	11	17,074	54	26,540
Paper and wood pulp	4	353,230	20,000	65,000	132,000	127,230	4	9	21,400	127	67,707
Patent medicines and compounds	4	62,070	9,000	8,223	8,533	36,316	2	7	7,990	22	11,174
Paving and paving materials	5	110,903	8,000	13,907	20,914	68,082	5	12	11,000	182	66,415
Photography	8	15,570	800	2,250	5,375	7,145	7	1	1,200	12	6,176
Pickles, preserves, and sauces	4	43,967	9,600	6,800	6,412	23,155	7	10	8,116	32	13,400
Plumbing, and gas and steam fitting	40	212,038	13,450	19,800	19,075	159,763	45	13	11,499	217	129,172
Pottery, terra cotta, and fire-clay products.	3	275,158		27,400	35,543	173,210	2	6	19,950	86	51,232
Printing and publishing, book and job	18	454,023	16,700	58,900	260,178	113,245	20	27	29,004	442	175,166
Printing and publishing, newspapers and periodicals.	6	245,594	15,500	39,100	133,261	57,738	4	18	31,597	140	115,266
Roofing and roofing materials	9	229,762	16,361	31,917	17,871	163,613	2	24	26,774	92	80,868
Rubber and elastic goods	5	623,606	23,276	34,500	146,146	374,744	1	25	43,310	213	106,044
Saddlery and harness	13	46,090	14,200	12,500	2,690	16,700	13	3	2,190	10	5,822
Scales and balances	3	37,900	11,700	13,300	22,050	40,850	3	10	11,100	31	17,260
Ship and boat building, wooden	5	151,400		10,000	64,200	77,200	4	7	12,200	212	116,693
Silk and silk goods	6	673,821	31,954	52,400	144,677	444,790	7	20	23,600	873	349,117
Slaughtering, wholesale, not including meat packing.	12	374,042	11,133	11,000	4,900	347,039	17	13	16,690	149	109,693
Soap and candles	6	1,202,677	102,750	215,220	245,294	579,413	8	149	186,244	432	180,868
Tinsmithing, coppersmithing, and sheet-iron working.	30	467,240	41,100	49,100	175,035	202,005	33	16	16,503	294	146,748
Tobacco, chewing, smoking, and snuff.	3	5,352,694	329,135	998,273	620,434	3,404,852		65	56,885	1,456	349,583
Tobacco, cigars and cigarettes	73	133,378	17,350	30,800	10,392	74,236	81	1	1,000	105	49,785
Toys and games	3	26,427	3,400	5,500	2,265	15,262	2	1	900	39	8,508
Watch, clock, and jewelry repairing	14	45,265	3,000	5,000	5,115	32,150	16	1	1,200	12	7,096
Window shades	7	129,439	17,500	43,500	16,100	62,339	6	27	40,450	31	43,736
Wood, turned and carved	5	30,301	4,600	3,700	34,740	32,761	3	3	2,840	43	21,435
All other industries ¹	113	54,408,114	3,495,107	3,223,331	23,724,213	23,964,958	89	586	808,924	5,002	2,495,553

¹Embraces artificial feathers and flowers, 1; awnings, tents, and sails, 2; axle grease, 1; bags, other than paper, 1; baking and yeast powders, 1; belting and hose, rubber, 2; billiard tables and materials, 1; bookbinding and blank book making, 2; boot and shoe findings, 2; boot and shoe uppers, 1; brooms and brushes, 2; carpets, rug, 2; cars, steam railroad, not including operations of railroad companies, 1; cheese, butter, and condensed milk, factory product, 1; chocolate and cocoa products, 1; cleansing and polishing preparations, 2; clothing, men's, factory product, 1; cork, cutting, 1; cotton goods, 2; cotton small wares, 1; crucibles, 1; druggists' preparations, not including prescriptions, 2; drug grinding, 1; dyeing and finishing textiles, 2; fireworks, 2; flags and banners, 1; flouring and grist mill products, 1; fruits and vegetables, canning and preserving, 1; fur goods, 2; fur hats, 1; furnishing goods, men's, 2; furniture, factory product, 1; galvanizing, 1; gas, illuminating and heating, 1; gas machines and meters, 1; glass, cutting, staining, and ornamenting, 1; gloves and mittens, 1; gold and silver, reducing and refining, not from the ore, 1; grease and tallow, 1; hand knit goods, 1; hats and caps, not including fur hats and wool hats, 1; hosiery and knit goods, 1; ink, printing, 1; ink,

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1	All industries	3,339	\$103,191,403	\$3,571,924	\$15,560,685	\$22,153,722	\$56,900,072	3,685	4,509	\$5,534,869	49,550	\$23,999,442
2	Awnings, tents, and sails	5	20,325	3,200	6,300	1,000	9,825	5	2	5,000	32	15,566
3	Belting and hose, leather	3	14,200			2,871	11,329	4	1	780	8	5,181
4	Bicycle and tricycle repairing	45	30,931	2,300	2,250	10,736	15,685	51			39	17,766
5	Bicycles and tricycles	3	30,812	9,000	6,000	24,350	41,462		17	19,372	51	21,142
6	Billiard tables and materials	4	21,765			1,150	20,615	3	7	8,900	6	3,725
7	Blacksmithing and wheelwrighting	101	163,300	39,950	45,800	18,898	58,652	109	5	1,506	145	92,148
8	Bookbinding and blank book making	10	69,323			33,567	36,356	10	5	2,997	150	50,826
9	Boot and shoe findings	6	136,205	5,400	5,700	30,900	94,205	5	14	15,450	122	46,718
10	Boots and shoes, custom work and repairing.	209	52,413	11,325	11,950	13,413	15,220	214			79	27,873
11	Boots and shoes, factory product	13	1,013,238	3,300	20,500	178,499	845,939	11	131	150,391	1,479	634,297
12	Bottling	59	356,028	96,500	86,300	42,333	130,895	77	21	15,100	108	47,302
13	Boxes, cigar	3	56,155	4,800	13,100	11,063	27,187	4	1	600	36	14,430
14	Boxes, fancy and paper	9	132,499	3,500	6,200	43,943	73,851	9	10	8,505	357	90,176
15	Boxes, wooden packing	7	222,176	21,000	33,000	45,843	117,333	7	10	12,711	223	85,361
16	Brass castings and brass finishing	12	476,277	84,682	101,763	107,305	182,527	13	7	5,419	130	71,862
17	Bread and other bakery products	179	1,339,721	226,050	414,050	349,624	350,000	185	146	106,941	803	433,392
18	Brooms and brushes	10	146,755			11,630	135,125	13	27	27,285	184	54,506
19	Buttons	23	431,703	3,700	24,000	130,914	273,089	31	49	46,195	1,033	367,301
20	Carpentering	175	1,272,616	261,325	153,405	75,013	782,873	208	46	44,917	1,481	1,024,913
21	Carpets, rag	5	3,117	500	600	730	1,287	5			3	786

BY SPECIFIED INDUSTRIES: 1900—Continued.

JERSEY CITY—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
123	\$108,700					\$813,825	\$175	\$15,800	\$797,850		\$244,000	\$232,450	\$11,640	\$1,204,550	32
514	253,442					425	400	25	25		465	320	145	2,375	33
221	149,279					68,379	5,124	10,603	52,652		747,067	742,161	4,903	1,390,377	34
14	11,590					60,712	652	639	1,561	\$57,860	309,313	303,493	825	655,559	35
		54	\$16,572	1	\$150	1,987	744	208	1,035		19,617	19,392	225	65,108	36
		14	5,892	1		2,064	2,220	323	416		18,355	18,195	160	40,256	37
67	37,620	1	302	1	156	7,093	2,364	1,141	3,588		51,239	49,558	1,381	148,291	38
10	6,198				84	883	790		93		2,133	1,733	400	15,637	39
25	22,594					836	349	102	385		24,012	23,046	66	65,784	40
287	122,053	28	6,600	9	2,080	22,698	400	1,465	20,828		95,237	92,987	2,250	259,554	41
183	117,606					8,419	5,666	295	2,358	100	65,070	64,598	472	250,647	42
40	22,990	14	3,550			38,403	1,754	1,754	36,640		223,484	210,016	3,568	341,797	43
105	62,631	18	4,140	4	936	25,983	1,500	4,520	17,663	3,800	157,865	124,348	33,517	314,990	44
21	10,654	1	520			50,537	720	690	49,127		35,016	37,362	654	146,833	45
182	66,415					2,694	650	821	1,823		72,095	71,770	325	164,637	46
8	4,776	4	1,400			3,643	1,968	71	1,604		9,686	9,551	135	35,086	47
21	10,592	11	2,808			7,365	324	403	6,638		49,653	49,396	257	101,259	48
213	128,204	2	492	2	416	34,143	8,150	502	17,001	8,400	269,800	267,153	2,647	610,740	49
84	60,806	2	416			50,426	2,251	21,784	26,391		178,042	168,428	9,614	306,405	50
233	121,108	164	46,045	45	8,013	22,195	7,755	1,690	12,110	640	206,977	202,731	4,246	488,795	51
129	110,511	8	4,099	3	656	11,690	2,040	1,697	7,458	600	43,170	41,406	1,764	249,914	52
92	80,868					21,039	1,850	1,610	17,679		265,502	264,011	1,491	476,266	53
209	104,900	4	1,144			86,140	3,255	2,492	30,333		382,566	367,408	15,158	1,173,848	54
10	6,822					3,074	2,110	510	454		23,692	23,462	230	51,925	55
31	16,500	3	760			9,831	984	984	5,397		11,023	9,906	1,117	59,683	56
212	116,693					16,224	9,950	1,074	3,500	5,100	70,204	66,554	3,650	259,000	57
375	170,462	490	176,455	8	2,200	164,720	2,215	1,394	36,493	124,613	604,079	594,269	9,810	1,274,550	58
149	109,893					46,227	33,024	420	12,783		5,391,830	5,388,980	2,850	5,708,763	59
335	150,613	105	22,275	42	7,980	337,298	2,600	10,948	323,750		1,031,443	1,051,801	29,642	2,045,389	60
207	139,850	27	6,888			20,983	8,492	2,635	9,341	515	211,505	207,313	4,187	475,363	61
453	176,760	913	153,823	92	19,000	1,895,990	1,100	11,540	1,833,350		1,851,211	1,817,333	33,878	5,799,668	62
92	45,326	9	3,424	4	535	38,063	10,595	1,261	26,207		96,010	94,692	1,318	236,374	63
13	3,680	19	4,018	7	810	2,313	700	153	1,460		9,016	8,810	205	27,021	64
12	7,006					5,896	4,224	204	618	850	23,430	23,115	315	56,976	65
69	39,800	12	3,936			15,303	1,235	1,235	12,533	250	340,820	339,150	1,670	591,594	66
39	20,331					10,424	870	7,145	7,145	1,905	31,720	29,455	2,265	71,562	67
4,133	2,160,322	1,399	323,003	70	7,223	1,809,802	183,202	122,031	1,484,245	15,324	31,148,670	30,761,121	387,549	33,451,312	68

writing, 1; instruments, professional and scientific, 2; iron and steel, 2; kindling wood, 2; lamps and reflectors, 2; leather, tanned, curried, and finished, 2; liquors, various, 1; looking-glass and picture frames, 2; lumber and timber products, 1; mantels, slate, marble, and marbled, 2; marble and stone work, 2; mattresses and spring beds, 1; oakum, 2; oil, castor, 1; paper goods, not elsewhere specified, 1; paper hanging, 2; pencils, lead, 1; perfumery and cosmetics, 2; photographic apparatus, 1; plastering and stucco work, 2; plated and britannia ware, 1; pocketbooks, 1; refrigerators, 1; sausage, 1; shirts, 1; slaughtering and meat packing, wholesale, 1; springs, steel, car and carriage, 1; stamped ware, 2; steam packing, 1; stereotyping and electrotyping, 1; sugar and molasses, refining, 1; taxidermy, 2; trunks and valises, 2; umbrellas and canes, 1; upholstering materials, 2; varnish, 1; watches, 1; woodenware, not elsewhere specified, 1; wool hats, 1; wool pulling, 1; zinc, smelting and refining, 1.

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37,094	\$20,518,560	11,133	\$3,258,135	1,323	\$222,747	\$10,050,907	\$958,213	\$454,109	\$3,023,599	\$614,986	\$67,105,944	\$65,663,142	\$1,442,802	\$126,954,049	1
14	8,146	18	7,420			1,890	1,080	315	495		23,356	23,771	85	55,553	2
3	5,181					1,720	1,012	78	630		23,107	22,817	290	40,742	3
36	17,410			3	356	7,943	6,943	265	1,320	420	30,401	29,614	787	86,435	4
42	18,642	9	2,500			14,165	800	430	12,155	800	56,192	54,608	1,584	131,397	5
6	3,650			1	75	3,576	2,520	800	256		96,144	96,129	15	139,266	6
139	90,849			6	1,299	17,641	12,576	1,334	3,067	664	68,144	63,854	4,290	282,323	7
75	34,327	68	15,493	7	1,006	6,566	4,418	353	1,715	45	39,415	38,579	836	133,133	8
66	30,845	56	15,873			9,263	2,121	740	5,536	366	119,914	118,597	1,317	263,090	9
75	27,338			4	595	25,471	21,794	398	2,031	1,248	59,361	57,711	1,650	201,686	10
978	505,574	393	109,853	108	18,870	250,972	14,275	3,130	226,359	7,203	1,355,353	1,348,502	6,851	2,630,048	11
102	45,869	6	1,433			29,135	11,411	2,368	15,356		290,743	289,377	1,366	527,404	12
13	7,548	23	0,882			1,023	193	193	530		19,413	18,594	819	40,041	13
75	28,467	278	61,149	4	560	26,103	6,078	406	19,624		142,360	139,291	3,069	300,980	14
135	69,789	77	13,750	11	1,822	19,267	2,721	1,244	15,302		208,308	200,917	2,391	361,538	15
118	68,862			12	3,000	9,083	1,876	2,736	4,476		234,424	229,013	5,406	375,962	16
713	411,709	75	18,840	15	2,813	143,917	56,817	8,396	78,704		1,498,233	1,453,784	39,449	2,540,245	17
113	41,969	65	11,719	6	813	40,901	9,274	116	31,514		242,600	241,149	1,451	476,552	18
476	225,153	492	127,170	65	14,970	28,830	15,742	1,264	11,833		361,647	353,413	8,234	912,489	19
1,473	1,024,075	1	468	2	370	306,042	14,163	8,973	25,143	257,753	1,759,639	1,754,601	5,038	3,596,388	20
1	516	2	270			502	876	36	90		1,972	1,833	89	6,475	21

TABLE 8.—MANUFACTURES IN CITIES

NEWARK—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
22 Carriage and wagon materials	11	\$311,436	\$10,000	\$11,010	\$74,591	\$215,835	11	26	\$31,051	270	\$128,148
23 Carriages and wagons	49	390,625	183,400	193,175	72,003	442,017	57	30	28,612	434	259,056
24 Cars and general shop construction and repairs by street railroad companies.	5	307,175	100,000	100,000	48,800	118,375	8	8	5,776	219	140,084
25 Chemicals	9	7,212,378	282,928	571,415	1,174,555	5,183,480	7	161	252,431	1,063	508,056
26 Cleansing and polishing preparations	4	7,366			205	7,161	2	1	350	8	1,472
27 Clothing, men's, custom work and repairing	177	745,446	137,150	97,750	35,809	474,737	185	48	39,118	523	257,191
28 Clothing, men's, factory product	46	299,625	40,900	62,500	20,338	176,437	59	21	32,036	1,118	414,314
29 Clothing, men's, factory product, buttonholes	5	5,563	2,200	2,000	1,903	60	8			9	2,639
30 Clothing, women's, dressmaking	207	159,899	26,780	40,250	22,308	70,561	224	1	150	314	121,019
31 Clothing, women's, factory product	24	931,955	55,700	135,219	70,721	664,315	27	103	88,016	1,330	410,053
32 Coffee and spice, roasting and grinding	3	74,185	6,000	6,500	8,385	53,300	5	10	6,755	26	11,567
33 Confectionery	29	210,201	29,950	23,760	51,204	100,287	40	34	13,900	114	53,648
34 Cooperage	27	99,280	21,300	14,200	10,005	53,775	7	4	8,808	52	29,860
35 Cork, cutting	3	9,080	750	1,100	2,230	5,000	3	1	960	16	4,620
36 Corsets	9	586,666	15,000	100,000	71,474	350,192	18	62	60,724	1,323	421,307
37 Cutlery and edge tools	14	591,834	73,900	92,363	137,349	288,222	11	90	108,285	737	309,457
38 Dyeing and cleaning	10	93,395	19,500	18,300	8,010	47,585	12	3	3,000	21	8,566
39 Dye stuffs and extracts	6	142,217	5,000	11,000	30,850	95,367	3	17	13,533	38	14,355
40 Electrical apparatus and supplies	12	1,463,136	30,722	120,608	304,825	1,006,981	8	91	89,373	475	253,818
41 Electrical construction and repairs	16	73,634			13,570	60,064	17	15	13,506	106	57,382
42 Electroplating	10	40,580	5,000	10,000	11,075	14,505	14	2	1,716	69	26,900
43 Enameling and enameled goods	8	43,527	2,650	6,527	21,820	12,530	7	4	2,756	25	12,111
44 Engraving and diesinking	10	42,320			29,310	13,010	16	1	260	60	34,932
45 Engraving, steel, including plate printing	8	48,105	1,400	1,800	30,800	14,105	5	5	5,568	62	40,560
46 Fancy articles, not elsewhere specified	15	782,606	49,406	102,100	218,099	413,001	11	179	170,322	685	283,195
47 Fertilizers	3	1,940,316	200,404	186,757	289,212	1,263,943	2	61	116,582	347	171,418
48 Files	3	17,250			7,350	9,900	5	3	2,600	39	19,766
49 Flavoring extracts	5	54,470	4,000	5,300	2,420	42,750	6	3		30	8,713
50 Flouring and grist mill products	4	89,670	12,000	23,000	14,500	40,170	3	9	7,000	18	9,400
51 Food preparations	8	432,121	2,000	35,000	83,692	311,429	7	16	19,208	47	25,514
52 Foundry and machine shop products	93	5,434,470	589,722	659,988	1,457,822	2,726,938	78	268	377,338	3,031	1,568,900
53 Fur goods	8	91,446	15,500	20,924	4,861	60,660	9	11	6,500	26	15,186
54 Fur hats	31	1,272,423	158,600	234,169	249,363	630,297	27	95	111,242	2,273	1,155,251
55 Furniture, cabinetmaking, repairing, and upholstering	57	108,005	10,250	14,200	15,775	67,780	67	6	3,260	121	68,643
56 Furniture, factory product	7	102,585	9,400	30,500	12,333	50,352	11	8	3,372	123	75,547
57 Gas and lamp fixtures	7	41,319			6,654	34,665	7	6	4,280	67	28,073
58 Glass, cutting, staining, and ornamenting	13	89,615	12,300	18,300	10,565	39,450	23	2	1,850	34	47,374
59 Gold and silver, reducing and refining, not from the ore	11	526,525	16,500	16,000	58,025	436,000	15	24	25,264	40	26,352
60 Grease and tallow	3	47,050	3,350	7,150	2,650	33,900	3	3	3,952	9	6,322
61 Hairwork	6	11,400			2,050	9,350	6	1	1,300	23	6,844
62 Hand knit goods	6	7,463			2,905	4,558	6			8	2,450
63 Hardware	19	795,785	52,000	78,150	259,864	405,771	16	48	57,220	792	321,373
64 Hardware, saddlery	19	562,585	63,500	97,500	116,992	284,593	24	37	38,719	467	220,542
65 Hat and cap materials	13	90,235	14,000	15,000	24,380	36,855	12	11	12,190	115	33,701
66 Hats and caps, not including fur hats and wool hats	26	415,585	44,100	71,948	62,303	237,234	31	37	39,506	629	238,195
67 Ice, manufactured	4	365,675	54,750	34,500	190,675	35,750	4	10	14,386	62	29,010
68 Instruments, professional and scientific	4	88,250			19,500	68,750	4	15	6,616	23	12,795
69 Iron and steel	3	1,499,614	225,000	234,939	252,066	737,609	25	25	43,584	634	346,548
70 Iron and steel, forgings	3	148,526	5,462	3,004	42,704	97,356	2	6	12,254	95	65,904
71 Ironwork, architectural and ornamental	10	115,450	25,800	14,950	21,900	52,800	14	8	7,850	100	61,665
72 Ivory and bone work	5	85,790			25,013	60,777	6	15	13,442	137	49,254
73 Japanning	5	12,325	3,600	4,700	1,400	3,125	4			16	6,942
74 Jewelry	98	5,512,552	67,250	154,700	562,724	4,727,878	165	321	395,033	2,768	1,555,869
75 Kindling wood	3	5,135	3,000	500	375	760	3			5	2,034
76 Lamps and reflectors	3	29,150			14,600	14,550	1	11	9,038	31	37,430
77 Lasts	3	63,122		25,000	27,031	10,491	3	4	6,516	44	20,519
78 Leather goods	9	35,393	5,000	2,800	13,240	14,853	8	7	3,665	57	20,261
79 Leather, tanned, curried, and finished	61	8,086,652	896,350	1,021,121	614,369	5,554,812	58	221	338,332	3,233	1,661,400
80 Lime and cement	4	308,585	23,700	73,800	78,515	132,570	4	9	8,773	98	49,679
81 Liquors, malt	16	12,175,804	1,023,872	3,161,492	1,851,180	6,139,260	6	204	489,598	970	774,589
82 Liquors, vinous	3	1,060	150	300	100	510	3			1	360
83 Lock and gun smithing	21	18,214			5,038	7,576	23			23	11,930
84 Looking-glass and picture frames	16	66,188	6,500	8,500	6,799	44,389	16	9	4,470	40	16,461
85 Lumber, planing mill products, including sash, doors, and blinds	13	236,709	14,000	30,200	87,072	105,437	10	29	30,734	200	97,806
86 Marble and stone work	20	554,198	39,000	26,100	87,327	351,271	21	27	37,224	439	279,495
87 Masonry, brick and stone	64	662,632	46,870	68,530	121,470	425,762	79	23	25,285	1,236	645,360
88 Mattresses and spring beds	9	39,492	4,000	8,000	8,547	18,945	13	5	3,900	46	20,543
89 Millinery, custom work	53	157,707	23,400	14,100	8,485	111,722	60	31	16,290	237	83,954
90 Mineral and soda waters	20	300,950	29,900	40,000	160,940	70,110	24	7	4,354	109	60,302
91 Models and patterns	10	30,595			9,065	21,530	13	2	335	59	36,310

BY SPECIFIED INDUSTRIES: 1900—Continued.

NEWARK—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
266	\$126,717	4	\$1,426			\$36,492	\$9,629	\$2,229	\$24,634		\$258,391	\$250,479	\$7,912	\$499,397	22
434	259,056					48,047	9,240	5,842	24,893		297,760	291,412	6,348	805,045	23
219	140,084					3,066	495	2,006	565	\$3,066	185,828	184,371	1,457	869,784	24
830	416,144	293	86,912			194,905	1,080	19,267	174,558		1,461,273	1,386,839	74,434	8,118,095	25
3	1,472					795	505		290		4,160	4,021	129	8,130	26
886	223,496	123	31,599	14	\$2,096	196,728	56,368	3,986	29,024	107,850	694,807	690,423	4,384	1,518,470	27
550	275,234	545	136,668	23	2,412	135,516	24,286	3,631	18,109	94,520	286,340	279,307	7,033	1,040,001	28
3	1,134	6	1,505			495	36	34	155		1,300	1,268	32	9,116	29
67	34,510	243	85,652	4	857	30,872	25,669	338	3,662	703	128,082	125,398	2,689	435,110	30
70	39,467	1,219	365,174	41	5,412	111,428	14,416	3,866	86,728	6,418	716,471	709,654	6,817	1,642,554	31
23	11,240					4,577	1,680	315	2,582		113,209	112,301	908	154,468	32
81	43,739	80	9,427	3	482	33,557	11,296	1,933	19,328	1,000	240,078	237,237	2,841	445,293	33
52	29,860					1,116	114	395	607		72,848	72,649	199	122,111	34
7	2,676	2	600	7	1,344	934	216	18	700		10,440	10,215	20	20,326	35
135	96,098	1,154	320,164	34	5,050	89,131	9,590	2,754	26,837		576,641	570,785	5,856	1,293,754	36
701	300,404	25	7,836	11	1,214	39,165	6,444	2,826	29,895		237,177	222,908	14,269	784,540	37
18	7,481	3	1,035			8,062	4,410	795	2,554		63,322	61,925	1,397	102,165	38
28	12,906	10	1,449			12,503	2,965	521	9,017		111,321	107,979	3,342	222,022	39
355	236,104	80	26,246	10	1,463	183,370	14,400	1,377	167,693		421,795	410,470	11,325	1,169,056	40
106	57,332					10,035	6,068	385	3,507	75	74,348	73,081	1,262	189,216	41
67	26,476	1	825	1	99	3,480	2,009	189	1,252		16,157	13,810	2,347	67,567	42
16	9,032	9	3,036			1,455	1,064	54	307		8,351	8,103	743	32,101	43
55	34,132			5	750	6,949	3,314	43	3,092		3,935	3,304	631	74,029	44
60	40,160	2	700			2,863	2,472	77	314		1,640	990	650	54,250	45
361	216,246	291	62,118	33	4,831	92,782	4,341	2,541	84,650	750	430,913	425,305	5,608	1,079,931	46
814	162,692	80	7,894	3	332	203,281	8,992	9,733	184,556		802,153	770,852	31,301	1,426,285	47
38	19,623			1	138	1,591	1,292	51	248		4,322	3,603	659	40,300	48
8	4,963	22	3,750			2,453	252	117	2,034		85,596	85,481	115	53,132	49
18	9,460					4,447	1,510	800	2,107		275,072	270,830	4,192	353,333	50
46	25,364			1	150	10,506	5,609	57	4,780		71,102	69,043	2,110	155,012	51
2,873	1,530,981	106	29,476	52	8,443	274,641	47,856	20,102	205,168	1,515	2,218,197	2,103,309	114,888	5,536,893	52
14	9,733	12	5,400			3,690	2,794	708	5,188		32,089	31,764	325	81,447	53
1,597	932,093	664	220,424	12	2,734	193,510	15,203	7,732	100,192	7,270	1,741,327	1,687,384	53,493	3,453,619	54
92	50,764	23	6,508	6	1,376	15,994	9,510	777	5,337	370	118,109	116,701	1,408	233,385	55
120	74,365	2	1,000	1	132	9,323	3,138	633	2,552	3,000	52,386	49,506	2,880	197,776	56
47	18,397	18	4,440	2	236	10,666	3,104	78	7,484		48,156	46,794	1,362	104,363	57
34	47,374					4,912	2,011	379	1,872	50	79,394	70,014	9,380	179,324	58
39	26,152			1	200	14,949	5,672	2,327	6,438	12	2,092,107	2,085,422	6,685	2,251,298	59
9	6,322					2,936		106	2,830		45,770	44,735	1,035	66,900	60
1	260	22	6,534			3,173	2,132	11	1,032		7,314	7,769	45	27,900	61
2	1,000	6	1,450			4,365	478	6	31	4,350	9,496	9,481	15	20,671	62
608	304,634	24	6,212	75	10,467	50,338	11,464	3,429	32,700	3,300	449,952	436,251	13,701	1,013,409	63
440	213,171	15	4,433	12	2,933	39,397	5,054	2,050	23,603	190	201,028	191,812	11,216	599,011	64
62	21,833	53	11,253	5	610	6,892	3,139	697	3,081	25	453,675	447,258	6,417	553,390	65
329	149,369	300	38,326			46,516	7,372	1,734	37,210		430,408	418,709	11,739	933,755	66
62	29,010					19,756		2,464	17,292		31,275	9,503	21,772	112,414	67
28	12,795					2,964	1,180	15	1,769		7,334	6,771	563	66,278	68
629	345,548			5	1,000	56,220	5,461	50,759	3,784		486,139	344,701	141,438	1,169,744	69
95	65,964					6,419	2,146	519	3,794		42,819	35,675	7,144	139,238	70
100	61,668					11,308	2,439	411	4,933	3,500	186,042	183,324	2,718	316,796	71
99	41,606	29	6,420	9	1,228	4,236	3,304	92	890		87,303	85,323	1,975	180,168	72
14	6,654	1	192	1	96	763	103	127	533		7,033	6,408	675	25,100	73
1,959	1,271,918	773	270,790	36	7,191	419,329	58,496	15,341	345,010	73	3,323,460	3,798,040	24,520	7,834,247	74
5	2,034					758	135	103	470		3,738	3,618	120	7,500	75
76	36,232	3	624	3	624	2,902	2,196	99	607		22,334	21,734	600	86,400	76
44	20,519					4,202	2,293	109	1,795		19,145	17,923	1,217	65,363	77
30	14,756	19	4,105	8	1,400	3,049	2,038	173	735		26,004	25,372	632	70,231	78
3,229	1,645,050	82	8,239	22	5,111	401,929	30,153	332,621	32,284	11,132	7,301,534	7,298,488	3,046	10,857,192	79
38	49,679					15,744	4,361	406	10,933		119,716	108,148	11,568	221,147	80
966	773,189	2	1,000	2	400	3,750,450	2,760	61,463	3,686,227		1,654,233	1,551,072	103,211	8,236,468	81
1	360					147	70		72		400	400		2,210	82
22	11,670	1	260			6,889	5,042	49	1,448	850	11,337	11,338	499	48,427	83
34	15,503			6	953	7,731	5,378	403	1,799	151	62,724	62,724	554	112,467	84
196	90,556	4	1,250			14,132	4,404	1,079	8,609	100	246,481	242,246	4,235	431,343	85
433	277,095			6	1,300	50,429	8,494	2,230	34,234	5,421	353,375	351,850	6,525	824,357	86
1,286	645,360					96,114	5,244	2,423	36,014	52,423	951,193	944,820	6,373	2,035,545	87
35	16,901	11	3,642			3,079	3,551	316	2,972	1,240	73,334	73,334	595	119,202	88
16	8,063	215	75,123	6	783	29,162	18,169	1,337	8,378	973	270,469	269,199	1,270	439,245	89
109	60,302					21,951	2,356	1,134	17,901	40	106,945	104,633	2,312	292,300	90
54	35,290	5	1,020			3,804	2,519	75	1,210		12,693	11,809	884	78,751	91

TABLE 8.—MANUFACTURES IN CITIES

NEWARK—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
92	Monuments and tombstones	10	\$47,100	\$10,300	\$8,850	\$2,690	\$25,260	12		22	\$11,810	
93	Mudlage and paste	4	9,950		600	3,950	5,400	8	5	3	2,400	
94	Oil, not elsewhere specified	5	321,551	11,720	94,426	61,492	183,913	35	35	44	24,246	
95	Painting, house, sign, etc	155	315,138	48,335	47,925	36,636	187,242	184	23	555	328,244	
96	Paints	6	963,845	41,000	130,400	237,800	554,645	3	62	237	140,075	
97	Paper hanging	5	8,075	1,000	3,000	490	3,585	5		18	10,946	
98	Patent medicines and compounds	6	20,560	300	625	2,785	16,900	2	6	20	8,786	
99	Paving and paving materials	7	156,730	10,000	18,125	33,974	99,631	5	8	89	44,511	
100	Perfumery and cosmetics	5	19,852			1,752	18,100	1	14	34	7,209	
101	Photography	26	41,111	3,000	5,200	21,657	11,254	28	4	29	17,129	
102	Pickles, preserves, and sauces	7	33,770	3,500	5,500	4,953	19,317	9		85	16,846	
103	Plastering and stuccowork	7	47,330	12,300	13,800	3,405	12,825	8	4	22	10,300	
104	Plumbers' supplies	5	92,440	6,000	6,100	33,222	47,118	4	12	47	28,523	
105	Plumbing, and gas and steam fitting	145	590,845	46,450	80,850	86,505	377,040	172	50	815	436,062	
106	Pottery, terra cotta, and fire-clay products.	4	35,600	17,000	8,400	3,700	6,500	3	5	16	6,684	
107	Printing and publishing, book and job.	54	624,712	25,200	55,163	321,713	222,686	62	104	493	203,330	
108	Printing and publishing, newspapers and periodicals.	16	1,164,835	125,000	36,679	776,775	226,331	12	75	408	285,410	
109	Roofing and roofing materials	14	174,105	20,500	32,250	13,740	107,615	15	14	130	62,807	
110	Rubber and elastic goods	5	213,444			54,027	159,417	1	7	100	39,385	
111	Saddlery and harness	46	708,176	73,700	58,150	106,338	469,938	67	48	719	336,581	
112	Scales and balances	4	403,022			51,270	351,752	2	10	35	21,210	
113	Sewing machine repairing	8	4,681			1,373	3,308	9		2	1,410	
114	Shirts	7	64,610	3,572	395,917	7,346	53,992	4	11	158	47,660	
115	Silversmithing	6	1,063,236	12,826		282,923	371,665	4	43	590	346,718	
116	Silverware	6	540,077			79,694	460,473	8	54	258	129,617	
117	Slaughtering and meat packing, wholesale.	8	321,477	22,700	70,000	61,566	167,211	12	36	169	89,473	
118	Smelting and refining, not from the ore.	4	3,505	1,250	1,600	305	350	4		3	950	
119	Sporting goods	4	91,963	2,000	6,000	15,000	71,963	2	9	99	31,169	
120	Stamped ware	15	863,533	56,696	113,000	339,638	359,199	16	40	950	346,704	
121	Steam fittings and heating apparatus	3	82,458			14,774	67,684	2	10	34	15,325	
122	Surgical appliances	3	3,275			625	2,650	3		5	2,548	
123	Tinsmithing, coppersmithing, and sheet-iron working.	26	173,279	15,350	39,764	45,853	77,312	29	16	181	95,210	
124	Tobacco, cigars and cigarettes	113	560,800	76,575	57,865	16,622	409,833	123	22	679	298,867	
125	Tools, not elsewhere specified	18	647,833	43,472	97,992	177,891	328,478	23	33	631	318,659	
126	Trunks and valises	14	500,044	23,700	30,475	122,967	322,902	18	23	467	243,762	
127	Upholstering materials	3	149,550	20,000	10,000	44,150	75,400	4	3	37	22,009	
128	Varnish	17	3,596,876	225,548	570,874	338,633	2,461,821	7	215	185	136,685	
129	Watch cases	5	1,371,137	28,000	133,000	320,934	829,153	2	38	637	305,268	
130	Watch, clock, and jewelry repairing	54	54,321	5,250	10,650	14,754	23,667	56		68	35,887	
131	Wirework, including wire rope and cable.	4	63,670			28,400	35,270	3	12	80	36,047	
132	Wood, turned and carved	15	171,560	8,750	39,000	24,270	99,540	20	5	104	42,991	
133	All other industries	95	22,833,630	1,944,632	4,149,938	7,851,603	8,937,457	75	397	5,639	2,514,805	

1 Embraces artificial feathers and flowers, 2; babbitt metal and solder, 1; baskets, and rattan and willow ware, 2; boot and shoe cut stock, 2; boot and shoe uppers, 2; brassware, 2; bronze castings, 2; cheese, butter, and condensed milk, factory product, 2; china decorating, 1; chocolate and cocoa products, 1; cloth, sponging and refinishing, 1; Collins, burial cases, and undertakers' goods, 2; copper, smelting and refining, 1; cotton goods, 2; cotton small wares, 1; drug grinding, 1; felt goods, 1; furnishing goods, men's, 1; furs, dressed, 2; gas, illuminating and heating, 1; gas machines and meters, 2; hosiery and knit goods, 1; ink, printing, 1; ink, writing, 2; iron and steel, bolts, nuts, washers, and rivets, 2; jewelry and instrument cases, 1; kaolin and other earth grinding, 1; lapidary work, 1; lard, refined, 1; lead, smelting and refining, 1; lithographing and engraving, 1; lumber and timber products, 2; malt, 1; mantels, slate, marble, and

NEW BRUNSWICK.

		193	\$6,028,036	\$345,280	\$815,624	\$1,581,808	\$3,282,374	201	218	\$260,992	3,726	\$1,256,034
1	All industries	193	\$6,028,036	\$345,280	\$815,624	\$1,581,808	\$3,282,374	201	218	\$260,992	3,726	\$1,256,034
2	Bicycle and tricycle repairing	5	3,150			1,225	1,925	5			3	1,150
3	Blacksmithing and wheelwrighting	14	21,260	3,410	4,430	4,130	9,290	17	1	100	19	9,871
4	Boots and shoes, custom work and repairing.	15	16,375	4,100	4,060	2,370	5,845	16			7	2,670
5	Bread and other bakery products	11	40,820	3,200	8,925	11,070	17,625	11	1	834	42	23,176
6	Carpentering	6	25,150	2,200	4,000	4,700	14,250	7			33	23,965
7	Carrriages and wagons	4	12,900	1,200	3,400	2,000	6,300	6			7	3,420
8	Clothing, men's, custom work and re- pairing.	15	45,030	6,800	7,800	1,405	29,025	20	1	400	48	21,455
9	Clothing, women's, dressmaking	7	7,275	650	3,050	885	2,690	7			7	1,624
10	Confectionery	3	8,050			2,000	6,050	4			5	1,560
11	Foundry and machine shop products	10	503,829	14,350	53,131	134,188	302,162	3	24	30,323	327	145,529
12	Furniture, cabinetmaking, repairing, and upholstering.	4	19,900	2,500	8,500	1,350	7,550	4	2	936	6	4,100
13	Millinery, custom work	8	42,100	6,500	13,500	950	21,150	9	2	1,236	32	8,902
14	Monuments and tombstones	5	20,515	665	600	1,200	18,050	5			3	2,316
15	Painting, house, sign, etc	9	9,760	1,550	1,100	1,330	5,720	12			17	8,740
16	Plumbing, and gas and steam fitting	10	39,725	5,200	7,000	5,075	22,450	11	2	1,100	35	18,784

BY SPECIFIED INDUSTRIES: 1900—Continued.

NEWARK—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
22	\$11,810					\$1,980	\$620	\$425	\$844	\$41	\$31,598	\$31,298	\$300	\$64,058	92
3	2,400					561	312	29	220		20,687	20,440	247	31,950	98
44	24,246					34,289	1,050	1,536	81,653		423,802	421,637	2,165	587,680	94
652	327,832			3	\$113	40,475	20,281	1,800	17,229	1,165	210,960	210,142	818	815,822	95
220	135,399	17	\$4,676			42,050	3,250	4,084	34,716		822,655	790,605	32,050	1,241,893	96
18	10,946					777	540	69	168		6,195	6,150	45	23,733	97
11	5,727	9	3,059			29,449	1,340	72	28,037		14,922	14,832	40	70,907	98
89	44,511					5,041	1,134	316	3,466	125	85,402	82,102	3,300	190,546	99
11	8,010	23	4,199			32,527	2,114	107	30,806		49,182	48,782	400	102,163	100
26	16,001	4	1,128			12,226	9,158	180	2,888		25,228	24,843	385	89,928	101
26	14,583	7	1,847	2	416	3,336	895	224	2,217		50,183	49,948	235	90,088	102
22	10,360					2,840	1,058	297	1,276	200	15,338	15,338	1,835	45,331	103
47	28,523					15,007	5,383	1,240	8,384		40,864	37,619	2,745	126,321	104
806	433,229	1	312	8	1,521	68,207	27,769	2,371	25,636	7,431	753,835	746,314	7,491	1,692,646	105
14	6,396			2	233	1,062	30	351	681		3,999	2,463	1,516	16,425	106
360	169,653	119	30,632	14	3,095	37,570	15,346	997	20,920	307	185,153	179,316	5,837	674,321	107
376	276,790	26	3,470	1	150	85,417	12,522	3,842	66,373	2,680	399,620	393,218	6,402	1,183,331	108
130	62,807					26,488	2,892	904	22,642		159,728	158,298	1,430	301,461	109
40	25,239	60	14,146			26,760	6,046	1,551	20,163		242,204	239,021	3,183	360,905	110
613	308,621	79	25,602	27	2,361	80,236	14,172	3,865	62,199		523,167	513,677	9,490	1,184,178	111
33	20,910			2	300	4,864	2,178	176	2,510		16,817	15,230	1,587	65,261	112
2	1,410					1,627	1,404	15	2,08		1,785	1,750	35	10,634	113
17	10,575	141	37,085			5,945	2,520	390	2,435		41,035	39,710	1,325	121,333	114
503	334,989	71	9,970	11	1,759	12,542	2,250	2,449	7,843		544,519	532,898	11,621	1,373,217	115
209	110,575	41	16,360	8	2,632	47,331	3,053	277	39,501		237,800	235,100	2,700	623,719	116
167	89,213			2	260	37,809	7,455	2,382	27,942		2,865,204	2,852,318	12,886	3,093,396	117
8	950					251	120	33	98		18,150	17,775	375	22,825	118
28	12,085	53	17,267	13	1,817	9,334	3,884	234	5,216		176,284	174,578	1,703	235,768	119
593	277,283	241	51,416	116	18,000	31,377	4,230	4,486	22,661		390,071	375,878	14,693	969,395	120
34	16,325					2,473	1,188	142	1,143		68,246	67,310	486	124,550	121
4	2,023	1	520			1,007	664	31	312		1,187	1,142	45	8,430	122
173	93,858	2	288	6	1,064	24,747	5,382	921	14,194	4,250	185,459	182,965	2,494	387,721	123
234	156,042	376	139,429	19	3,308	152,720	15,513	2,437	134,770		378,934	377,062	1,872	1,049,174	124
619	315,705	4	1,254	8	1,700	51,831	5,056	3,193	35,909	7,718	379,018	369,818	15,195	903,300	125
433	234,835	27	7,809	7	1,118	48,540	15,109	2,450	30,927	45	479,388	477,148	2,240	904,601	126
36	21,750	1	250			6,048	2,260	898	2,390		102,504	98,514	3,990	164,333	127
181	135,773	2	612	2	309	143,351	7,545	14,371	121,935		1,121,973	1,111,433	10,540	2,401,849	128
515	255,900	107	44,868	15	4,500	34,535	920	4,120	29,435		730,371	724,956	5,915	1,258,601	129
54	35,085	1	250	3	552	18,376	9,166	313	3,684		24,080	23,320	760	139,497	130
76	35,272	3	700	1	75	10,306	4,236	470	5,600	5,213	61,824	49,944	1,880	113,685	131
74	33,773	1	364	29	3,854	5,379	2,931	740	1,708		30,412	28,064	2,348	111,432	132
3,602	1,933,912	1,771	524,534	316	51,359	933,187	33,832	117,775	779,015	2,515	16,978,910	16,665,941	312,969	25,041,736	133

marbled; 1; millinery and lace goods, 2; musical instruments and materials, not specified, 2; oil, linseed, 1; oilcloth, enameled, 1; optical goods, 1; paper and wood pulp, 1; paper goods, not elsewhere specified, 1; paper hangings, 1; photographs and graphophones, 1; photographic materials, 1; photolithography and photoengraving, 2; pipes, tobacco, 1; plated and britannia ware, 1; refrigerators, 1; rules, ivory and wood, 1; sausage, 2; saws, 2; sewing machines and attachments, 2; shoddy, 1; slaughtering, wholesale, not including meat packing, 2; soap and candles, 2; springs, steel, car and carriage, 1; stationery goods, not elsewhere specified, 1; stereotyping and electrotyping, 2; taxidermy, 1; tobacco, chewing, smoking, and snuff, 1; typewriters and supplies, 2; umbrellas and canes, 2; watch and clock materials, 2; watches, 1; window shades, 1; wire, 1; wood, preserving, 1; wool hats, 1; zinc, smelting and refining, 1.

NEW BRUNSWICK.

2,095	\$860,870	1,442	\$363,512	189	\$31,622	\$661,944	\$25,069	\$32,358	\$593,014	\$11,003	\$2,929,382	\$2,869,765	\$60,117	\$5,812,757	1
3	1,150					694	486		208		2,615	2,425	190	6,310	2
18	9,515			1	356	2,194	769	87	338	1,000	14,261	13,583	678	33,913	3
7	2,670					1,083	612	112	234	125	5,569	5,394	175	15,716	4
38	22,314	3	662	1	200	3,682	2,255	288	1,109		64,804	62,014	2,790	111,174	5
33	22,965					4,188	218	245	825	2,900	39,830	39,474	365	73,994	6
7	3,420					623	292	58	260	18	9,340	9,235	105	17,990	7
45	21,034	3	421			3,603	1,947	239	1,417		27,971	27,597	374	70,910	8
3	1,040	7	1,624			576	326	142	93	15	1,900	1,825	75	7,875	9
317	141,329	1	260	1	260	1,102	1,020		82		4,986	4,871	115	13,305	10
6	4,100	9	3,900	1	300	41,699	3,365	1,666	29,818	6,850	143,567	133,626	9,941	411,567	11
						381	171	125	85		4,523	4,423	105	13,700	12
3	2,316	32	3,902			2,276	1,360	175	741		24,652	24,420	232	43,200	13
17	8,740					532	355	68	109		7,253	7,230	23	16,900	14
34	18,610			1	174	456	234	44	123		7,245	7,225	20	23,425	15
						2,193	846	205	1,122	20	35,565	35,065	500	71,960	16

TABLE 8.—MANUFACTURES IN CITIES

NEW BRUNSWICK—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
17 Printing and publishing, book and job	5	\$26,100	\$1,500	\$3,500	\$17,300	\$3,800	6		18	\$8,550	
18 Printing and publishing, newspapers and periodicals.	3	66,950	3,000	7,000	44,950	12,000	1	10	27	17,168	
19 Saddlery and harness	4	4,225	1,000	1,000	575	1,650	4		8	1,565	
20 Tobacco, cigars and cigarettes	13	70,505	1,750	2,000	18,250	58,505	15	2	388	131,623	
21 Watch, clock, and jewelry repairing	6	9,850			2,200	7,650	6		10	6,279	
22 All other industries ¹	36	5,034,617	285,705	682,628	1,832,597	2,733,687	32	173	2,694	814,589	

¹ Embraces bluing, 1; boots and shoes, factory product, 2; boots and shoes, rubber, 1; bottling, 2; boxes, fancy and paper, 1; buttons, 1; carpets, rug, 1; clothing, women's, factory product, 1; dyeing and cleaning, 1; flouring and grist mill products, 1; gas, illuminating and heating, 1; grease and tallow, 1; hairwork, 1; hand knit goods, 1; hosiery and knit goods, 2; liquors, malt, 1; lock and gun smithing, 1; lumber, planing mill products, including sash, doors, and

ORANGE.

1 All industries	284	\$1,937,457	\$149,043	\$221,967	\$313,971	\$1,251,576	322	77	\$79,758	2,712	\$1,423,284
2 Bicycle and tricycle repairing	5	3,300			1,625	1,675	5	1	780	6	1,775
3 Blacksmithing and wheelwrighting	11	16,655	2,650	2,000	1,630	9,325	12			14	8,748
4 Boots and shoes, custom work and repairing.	21	3,452			1,900	1,552	22			13	4,416
5 Bottling	3	13,400	500	800	8,850	3,750	3	1	720	5	2,892
6 Bread and other bakery products	17	64,460	14,600	16,500	16,690	17,660	17			69	36,152
7 Carpentering	33	91,244	10,975	11,660	10,732	57,877	39	2	1,400	202	116,781
8 Carriages and wagons	7	29,625	11,000	6,500	2,600	9,525	7	1	364	32	15,806
9 Clothing, men's, custom work and repairing.	11	3,775			1,215	2,560	11			11	4,922
10 Clothing, women's, dressmaking	19	5,870	1,000	500	1,845	2,525	19	1	600	31	7,308
11 Confectionery	3	6,300			3,100	2,200	3			7	2,215
12 Electrical construction and repairs	3	4,635	600	400	435	3,200	3			4	1,920
13 Fur hats	12	1,109,496	50,800	118,782	142,037	797,877	23	42	49,416	1,497	813,525
14 Furniture, cabinetmaking, repairing, and upholstering.	3	3,625			425	3,200	3			7	5,224
15 Glass, cutting, staining, and ornamenting.	4	3,585	250	200	885	2,750	4			6	3,716
16 Lumber, planing mill products, including sash, doors, and blinds.	5	72,621	17,800	10,500	10,100	34,221	6	2	1,980	52	29,540
17 Masonry, brick and stone	16	58,985	7,200	4,100	8,450	39,235	19	4	4,480	179	97,630
18 Millinery, custom work	4	7,420	1,500	1,000	20	4,900	6			4	1,090
19 Painting, house, sign, etc	19	20,128	500	850	3,825	14,953	22	1	260	90	42,419
20 Paving and paving materials	4	13,670			2,205	16,365	8			59	18,777
21 Photography	7	32,025	3,000	5,000	7,550	16,475	7			14	7,223
22 Plumbing, and gas and steam fitting	24	99,610	17,040	18,500	3,910	55,160	32	1	624	131	68,426
23 Printing and publishing, newspapers and periodicals.	5	42,445			23,350	13,595	3	3	8,000	60	31,351
24 Saddlery and harness	4	10,500			650	9,850	4			8	5,289
25 Tobacco, cigars and cigarettes	6	28,545	300	200	675	22,370	6	1	348	22	10,361
26 Watch, clock, and jewelry repairing	3	2,300	700	1,000	325	275	3			2	864
27 Wood, turned and carved	3	5,100			2,300	2,800	3			3	2,240
28 All other industries ¹	32	186,796	9,528	23,475	48,092	105,701	32	17	10,786	181	87,668

¹ Embraces awnings, tents, and sails, 2; bookbinding and blank book making, 2; boxes, fancy and paper, 2; boxes, wooden packing, 2; cars and general shop construction and repairs by street railroad companies, 1; dyeing and cleaning, 2; electrical apparatus and supplies, 1; flouring and grist mill products, 1; foundry and machine shop products, 2; lapidary work, 1; lock and gun smithing, 2; looking-glass and picture frames, 1; marble and stone work, 1; mattresses and spring

PASSAIC.

1 All industries	185	\$23,279,421	\$682,915	\$2,623,627	\$9,362,967	\$10,609,912	178	441	\$654,094	7,102	\$2,773,278
2 Bicycle and tricycle repairing	5	1,945	300	400	545	700	5			4	1,628
3 Blacksmithing and wheelwrighting	9	11,225	3,900	2,100	1,215	4,010	10			14	7,945
4 Boots and shoes, custom work and repairing.	19	2,166	200	600	778	528	20			4	1,360
5 Bottling	5	4,417	1,400	1,600	230	1,187	6			10	4,869
6 Bread and other bakery products	17	62,910	12,000	32,000	7,695	11,315	16			49	23,262
7 Carpentering	5	18,650	3,200	2,900	2,950	9,600	7			61	40,031
8 Clothing, men's, custom work and repairing.	16	5,315			1,605	3,710	16			19	9,913
9 Dyeing and finishing textiles	3	3,554,356	126,500	482,718	1,457,034	1,438,054		57	92,786	1,315	596,583
10 Foundry and machine shop products	6	122,642	13,200	12,000	30,743	66,699	7	4	7,920	64	36,471
11 Furniture, cabinetmaking, repairing, and upholstering.	3	2,700	550	1,100	700	350	4			6	2,928
12 Masonry, brick and stone	5	88,725	2,000	7,300	2,725	76,700	4	2	3,000	244	132,121
13 Millinery, custom work	6	14,005	2,000	7,000	355	4,650	6			13	4,073
14 Painting, house, sign, etc	9	3,249			2,725	5,524	11	2	2,000	54	37,022
15 Photography	4	6,525			3,800	2,725	5			5	1,324
16 Plumbing, and gas and steam fitting	10	27,832	1,000	2,700	5,375	18,257	14	1	1,000	54	32,963

BY SPECIFIED INDUSTRIES: 1900—Continued.

NEW BRUNSWICK—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
15	\$7,950	2	\$450	1	\$150	\$1,707	\$575	\$150	\$982	-----	\$9,031	\$8,581	\$500	\$25,778	17
19	14,484	6	2,402	2	250	2,661	900	475	1,286	-----	10,677	9,647	1,030	68,776	18
8	1,565	-----	-----	-----	-----	648	528	15	105	-----	2,786	2,716	70	7,250	19
52	40,822	302	83,161	29	7,640	89,684	2,855	145	36,581	-----	227,197	226,727	470	508,400	20
10	6,279	-----	-----	-----	-----	1,460	944	46	470	-----	3,014	2,920	94	15,500	21
1,465	580,567	1,077	261,760	152	22,262	500,697	4,931	28,573	467,018	\$75	2,283,082	2,240,812	42,270	4,250,969	22

blinds, 2; masonry, brick and stone, 1; musical instruments and materials, not specified, 1; needles and pins, 1; paints, 1; patent medicines and compounds, 1; photography, 2; pottery, terra cotta, and fire-clay products, 2; rubber and elastic goods, 1; ship and boat building, wooden, 1; shirts, 1; stamped ware, 1; surgical appliances, 1.

ORANGE.

2,287	\$1,284,986	391	\$135,477	34	\$7,821	\$232,632	\$50,799	\$6,402	\$11,085	\$64,286	\$2,259,135	\$2,201,833	\$57,302	\$4,604,335	1
5	1,515	1	260	-----	-----	1,656	1,346	-----	310	-----	8,912	8,827	85	11,112	2
14	8,748	-----	-----	-----	-----	1,469	1,259	125	85	-----	7,134	6,618	521	34,272	3
18	4,416	-----	-----	-----	-----	1,871	1,804	-----	67	-----	7,648	7,488	160	22,564	4
5	2,892	-----	-----	-----	-----	2,636	836	50	2,250	-----	8,120	7,040	180	19,000	5
60	82,892	9	3,260	-----	-----	10,988	4,844	554	5,500	-----	151,471	148,789	2,682	251,186	6
202	116,784	-----	-----	-----	-----	49,812	1,700	647	4,500	42,875	154,352	153,240	1,112	383,051	7
32	16,806	-----	-----	-----	-----	2,718	1,572	215	781	150	14,269	13,970	299	42,198	8
10	4,538	1	884	-----	-----	2,344	2,089	25	230	-----	7,755	7,650	105	21,993	9
8	1,820	31	7,808	1	125	1,428	1,341	50	37	-----	5,875	5,685	190	26,184	10
4	1,920	3	770	-----	-----	1,841	1,200	81	610	-----	5,835	5,745	140	15,068	11
1,194	701,877	276	105,432	27	6,716	85,485	9,682	2,208	65,541	8,054	1,335,610	1,292,183	43,427	2,496,494	12
7	5,224	-----	-----	-----	-----	650	580	10	60	-----	16,540	16,510	30	27,640	14
6	3,716	-----	-----	-----	-----	793	420	3	370	-----	2,065	1,950	115	11,785	15
52	29,540	-----	-----	-----	-----	6,436	900	476	2,060	3,000	61,710	60,025	1,685	125,850	16
178	97,330	-----	-----	1	250	10,840	1,149	228	2,833	6,630	99,993	98,518	1,475	270,895	17
90	42,419	4	1,090	-----	-----	1,251	900	68	285	-----	6,600	6,550	50	14,470	18
59	18,777	-----	-----	-----	-----	2,588	1,392	46	1,150	-----	32,648	32,633	15	109,080	19
10	5,722	3	1,416	1	85	4,748	1,786	132	2,825	-----	7,765	7,600	165	80,200	21
130	68,218	-----	-----	1	208	8,309	4,238	486	3,585	-----	112,831	111,899	932	239,630	22
57	30,504	3	850	-----	-----	5,709	2,316	210	1,706	1,477	14,813	14,015	798	76,786	23
8	5,289	-----	-----	-----	-----	1,173	960	8	205	-----	23,745	23,660	85	44,499	24
18	9,636	3	600	1	125	4,726	982	33	3,711	-----	13,008	12,963	45	36,828	25
2	864	-----	-----	-----	-----	253	120	63	70	-----	1,430	1,350	80	6,400	26
3	2,240	-----	-----	-----	-----	798	558	30	210	-----	2,353	2,095	258	7,183	27
125	78,249	57	14,107	2	312	19,018	7,048	756	10,819	400	99,256	96,588	2,668	267,499	28

beds, 1; mineral and soda waters, 2; monuments and tombstones, 1; musical instruments, organs and materials, 1; musical instruments, pianos and materials, 1; paper hanging, 1; patent medicines and compounds, 1; printing and publishing, book and job, 2; roofing and roofing materials, 1; tinsmithing, coppersmithing, and sheet-iron working, 1.

PASSAIC.

4,694	\$2,188,550	2,192	\$553,132	216	\$36,596	\$1,199,108	\$41,602	\$57,762	\$1,060,159	\$39,585	\$7,971,505	\$7,704,864	\$266,641	\$14,031,254	1
4	1,628	-----	-----	-----	-----	629	496	8	125	-----	1,640	1,580	60	6,686	2
13	7,795	-----	-----	1	150	1,141	702	97	342	-----	5,128	4,779	349	23,810	3
4	1,860	-----	-----	-----	-----	1,397	1,320	8	69	-----	5,027	4,891	136	17,450	4
10	4,869	-----	-----	-----	-----	2,575	540	35	2,000	-----	19,060	19,870	90	30,670	5
42	21,630	7	1,632	-----	-----	5,092	3,020	373	1,699	-----	34,101	31,619	2,482	194,726	6
61	40,031	-----	-----	-----	-----	6,605	360	75	170	6,000	80,972	80,932	40	139,485	7
19	9,913	-----	-----	-----	-----	2,546	2,352	7	127	60	17,722	17,496	226	41,404	8
1,094	541,948	201	50,505	20	4,130	278,240	-----	8,447	269,793	-----	997,407	884,966	112,441	2,316,681	9
64	36,471	-----	-----	-----	-----	3,093	506	867	1,720	-----	111,198	105,563	5,635	175,331	10
6	2,923	-----	-----	-----	-----	200	180	20	20	-----	3,808	3,730	78	9,305	11
244	132,121	-----	-----	-----	-----	3,147	100	96	2,951	-----	224,948	224,848	100	392,077	12
53	36,873	13	4,073	-----	-----	1,035	890	70	75	-----	9,470	9,445	25	19,870	13
4	1,675	-----	-----	1	144	1,173	942	10	221	-----	15,739	15,656	83	67,604	14
52	82,557	-----	-----	1	149	2,050	1,500	-----	550	-----	5,425	5,305	120	12,770	15
-----	-----	2	406	-----	-----	2,730	1,959	128	643	-----	72,269	71,794	475	132,040	16

TABLE 8.—MANUFACTURES IN CITIES

PASSAIC—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
17 Printing and publishing, newspapers and periodicals.	6	\$158,796	\$20,000	\$84,000	\$84,088	\$20,758	4	12	\$9,664	90	\$25,896
18 Saddlery and harness	4	3,775			825	3,450	4			1	527
19 Tobacco, cigars and cigarettes	7	6,875	1,000	200	675	3,500	6			7	3,793
20 Watch, clock, and jewelry repairing	5	5,845			2,300	3,545	6			8	1,586
21 Woolen goods	3	832,948		106,938	172,460	553,550	14	27,389		486	167,580
22 All other industries ¹	38	18,341,080	495,665	1,930,071	7,584,244	8,331,100	27	349	510,335	4,599	1,615,958

¹ Embraces belting and hose, rubber, 1; blacking, 1; bookbinding and blank book making, 1; carriages and wagons, 1; chemicals, 2; clothing, women's dressmaking, 2; confectionery, 2; cotton goods, 1; electrical apparatus and supplies, 1; engraving and diesinking, 1; flouring and grist mill products, 1; food preparations, 1; gas, illuminating and heating, 1; instruments, professional and scientific, 1; liquors, vinous, 1; lock and gun smithing, 1; lumber, planing mill products, including sash, doors, and blinds, 1; mantels, slate, marble, and marbledized, 2; marble and stone work, 1; mattresses and spring beds, 1; millinery and

PATERSON.

	995	\$43,510,481	\$2,777,382	\$6,019,607	\$11,519,306	\$23,194,186	1,074	1,242	\$1,617,999	30,190	\$12,812,538
1 All industries											
2 Bicycle and tricycle repairing	14	26,489	4,400	3,000	4,615	14,474	15			7	4,086
3 Blacksmithing and wheelwrighting	40	96,855	33,550	25,800	12,730	19,375	44			52	31,791
4 Boots and shoes, custom work and repairing.	75	29,293	8,200	7,300	5,250	8,423	79			24	10,516
5 Bottling	7	26,681	1,900	3,650	2,931	18,200	8	2	1,650	13	5,402
6 Boxes, fancy and paper	5	31,900	1,500	3,500	12,400	14,500	6	1	780	49	19,992
7 Bread and other bakery products	80	242,742	70,930	108,950	22,415	40,447	86			138	74,727
8 Card cutting and designing	14	56,000	600	500	32,075	22,825	17			78	38,117
9 Carpentering	40	290,720	64,800	30,900	33,765	101,755	43	16	18,973	552	371,276
10 Carriages and wagons	9	134,050	48,900	33,700	11,150	40,800	9	6	2,635	92	44,451
11 Clothing, men's, custom work and repairing.	52	72,032	11,100	9,300	4,593	47,049	58	1	480	58	33,833
12 Clothing, women's, dressmaking	19	19,498	3,000	4,200	2,858	9,440	20			24	10,746
13 Confectionery	23	65,086	16,500	7,000	15,175	27,411	26	14	3,116	31	14,828
14 Dyeing and cleaning	3	1,355	200	100	279	265	3			1	150
15 Dyeing and finishing textiles	30	2,826,293	265,331	493,344	1,187,892	879,726	24	151	221,064	2,707	1,184,764
16 Foundry and machine shop products	37	6,693,425	615,007	1,562,025	1,810,455	2,680,938	31	169	234,293	3,854	1,844,745
17 Fur hats	8	10,800			5,800	5,000	3			7	3,404
18 Furniture, cabinetmaking, repairing, and upholstering.	14	23,843	2,800	6,500	2,738	11,805	17	1	50	30	10,060
19 Ironwork, architectural and ornamental.	5	30,275	7,100	5,200	10,875	7,100	8			26	13,148
20 Liquors, malt	6	5,685,849	100,000	558,595	1,038,742	3,988,512		35	76,486	245	167,575
21 Lock and gun smithing	7	6,205	1,400	1,500	2,620	685	7			1	453
22 Looking-glass and picture frames	4	2,960			510	2,450	4			3	1,292
23 Lumber, planing mill products, including sash, doors, and blinds.	3	110,564	16,500	17,093	14,457	62,514	2	6	4,262	25	11,414
24 Masonry, brick and stone	15	96,560	27,900	8,725	7,630	52,305	16	3	2,780	178	117,712
25 Millinery, custom work	22	33,131	800	1,400	2,090	33,841	28	3	668	71	19,515
26 Mineral and soda waters	13	103,400	14,700	14,100	51,200	28,400	13	2	1,000	46	22,720
27 Monuments and tombstones	3	7,950	1,300	700	250	5,700	3			2	1,580
28 Painting, house, sign, etc	45	96,091	10,800	18,950	12,036	54,305	52	8	6,132	223	142,096
29 Paving and paving materials	6	93,450	3,700	3,250	33,350	53,150	7	15	11,820	222	110,199
30 Photography	15	23,100		330	12,900	9,870	16	1	364	14	6,460
31 Plumbing, and gas and steam fitting	45	188,994	19,000	28,650	23,974	117,370	49	8	6,460	247	134,669
32 Printing and publishing, book and job	12	45,796	7,350	4,050	26,535	7,861	13			29	11,756
33 Printing and publishing, newspapers and periodicals.	10	386,556	70,450	81,300	145,590	89,216	2	29	35,527	151	96,089
34 Saddlery and harness	12	46,185	7,700	6,800	2,100	30,585	12	1	400	50	21,794
35 Shirts	3	533,100	56,000	120,000	50,100	308,000	8	17	16,118	962	398,139
36 Silk and silk goods	136	10,025,564	535,243	1,832,245	5,086,863	11,571,213	159	602	735,563	15,943	6,291,998
37 Slaughtering and meat packing, wholesale.	3	399,800	54,300	91,500	75,500	178,500	4	11	15,464	75	41,562
38 Soap and candles	3	15,255			5,175	10,080	3	3	2,920	5	4,057
39 Tinsmithing, coppersmithing, and sheet-iron working.	15	36,656	12,000	13,950	7,599	53,107	15	3	3,744	51	36,701
40 Tobacco, cigars and cigarettes	28	86,980	21,050	21,050	2,165	42,715	28	4	1,584	71	38,066
41 Watch, clock, and jewelry repairing	27	17,212	2,800	2,250	4,660	7,502	31			19	11,782
42 Wood, turned and carved	8	65,174	11,250	17,800	14,944	21,180	11			54	22,700
43 All other industries ¹	84	5,606,602	644,421	871,310	1,719,829	2,461,042	94	130	213,661	3,757	1,377,240

¹ Embraces awnings, tents, and sails, 1; baking and yeast powders, 1; baskets, and rattan and willow ware, 1; belting and hose, leather, 2; bookbinding and blank book making, 1; boot and shoe cut stock, 1; boot and shoe uppers, 1; brass castings and brass finishing, 2; brassware, 2; brooms and brushes, 2; carpets and rugs, other than rag, 1; carpets, rag, 1; chemicals, 1; clothing, men's, factory product, 2; clothing, women's, factory product, 1; coffee and spice, roasting and grinding, 2; cotton goods, 2; cotton small wares, 1; dye stuffs and extracts, 1; electrical construction and repairs, 2; electroplating, 1; engraving and diesinking, 1; fancy articles, not elsewhere specified, 1; files, 1; flouring and grist mill products, 1; fur goods, 1; furnishing goods, men's, 2; furniture, factory product, 1; gas and lamp fixtures, 1; glass, cutting, staining, and ornamenting, 1; glue, 1; hairwork, 2; hand stamps, 1; ice, manufactured, 1; iron and steel, 1; jute and jute

BY SPECIFIED INDUSTRIES: 1900—Continued.

PASSAIC—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
74	\$20,909	14	\$3,967	2	\$520	\$8,913	\$912	\$583	\$6,418	\$1,000	\$15,992	\$14,025	\$1,967	\$71,982	17
1	527					693	605	8	25		3,268	3,213	55	7,275	18
7	3,793					2,458	743	10	1,705		7,247	7,187	60	17,577	19
3	1,586					1,097	592		505		1,375	1,300	75	8,340	20
373	134,944	98	30,117	15	2,519	40,360	16,380	3,656	20,324		388,321	380,330	7,991	737,363	21
2,566	1,151,537	1,859	462,838	174	23,578	\$33,991	7,503	43,269	750,697	32,525	5,900,488	5,760,335	134,153	9,609,308	22

lace goods, 1; monuments and tombstones, 2; paper goods, not elsewhere specified, 1; printing and publishing, book and job, 1; roofing and roofing materials, 1; rubber and elastic goods, 1; silk and silk goods, 1; slaughtering and meat packing, wholesale, 1; soap and candles, 1; smithing, copper-smithing, and sheet-iron working, 1; wood, turned and carved, 1; worsted goods, 2.

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19,242	\$9,561,443	9,502	\$3,015,922	1,440	\$235,173	\$5,059,521	\$396,912	\$203,516	\$2,230,994	\$2,228,099	\$26,882,183	\$26,199,597	\$682,586	\$52,287,975	1
7	4,096					3,229	2,719	101	409		15,656	15,267	389	32,154	2
52	34,791					4,157	2,667	775	615	100	26,064	24,201	1,863	104,965	3
23	10,386			1	130	7,196	6,615	188	393		26,038	25,322	716	79,986	4
13	5,402					1,665	256	112	1,297		38,188	32,736	452	50,442	5
18	9,507	29	9,957	2	468	4,049	1,460	139	2,450		39,719	39,044	675	78,005	6
131	72,580	4	1,521	3	626	16,762	10,167	1,799	4,796		294,160	285,520	8,631	520,449	7
55	33,751	7	1,800	16	2,566	6,788	4,246	204	2,338		42,989	41,964	1,025	114,532	8
550	370,876	2	900			40,875	855	2,173	7,147	30,700	790,760	788,320	2,430	1,395,965	9
90	44,154			2	300	6,925	915	1,633	3,255	1,122	42,944	41,051	1,893	133,895	10
55	32,999	2	684	1	150	25,982	13,988	458	1,678	9,858	78,939	77,527	1,412	196,733	11
17	8,771	6	1,850	1	125	3,691	3,288	103	800		18,830	13,473	357	40,501	12
25	13,740	5	1,028	1	60	14,739	11,788	532	2,419		70,759	68,418	2,341	154,620	13
1	150					167	112	3	52		975	730	245	3,150	14
2,569	1,153,162	65	18,373	73	13,229	154,673	25,955	13,069	115,649		1,808,606	1,699,065	109,541	3,336,409	15
3,588	1,783,094	176	44,028	91	17,623	265,856	19,842	34,510	157,607	53,897	3,101,886	2,983,366	118,520	5,906,517	16
5	2,604	2	800			3,636	2,196	10	230	1,200	17,094	16,764	330	29,000	17
27	14,956	8	1,104			2,918	1,794	292	532	300	37,504	37,150	354	78,312	18
25	12,948			1	200	1,050	108	151	791		24,669	23,688	981	49,252	19
241	166,775			4	300	1,007,659	11,707	995,952			282,120	256,105	26,015	1,859,537	20
1	453					1,198	952	81	165		1,962	1,728	234	8,265	21
3	1,292					774	680	9	85		3,080	2,974	56	8,310	22
25	11,414					2,565	100	612	1,853		71,569	70,240	1,329	101,429	23
178	117,712					11,586	84	736	7,191	3,575	163,516	163,161	355	332,880	24
89	21,020	71	19,515	7	1,700	10,399	8,858	306	1,225		53,922	53,354	568	118,232	25
2	1,580					3,678	1,470	517	1,686		41,910	40,754	1,155	111,134	26
223	142,096					172	42	80	50		2,232	2,200	32	6,450	27
222	110,199					9,606	7,421	663	1,472	50	99,995	99,654	341	332,291	28
11	5,640	3	820			84,397	562	220	21,215	62,400	188,760	135,800	2,960	371,592	29
242	133,994			5	675	7,001	6,196	91	714		16,664	16,410	254	55,090	30
25	10,669	3	962	1	125	13,301	6,934	702	3,015	2,650	253,660	251,949	1,711	487,517	31
92	77,498	49	17,637	10	954	6,821	2,486	182	1,153	3,000	11,147	10,055	1,092	43,465	32
46	20,494	4	1,300			20,315	2,415	2,481	14,814	605	52,203	48,613	3,590	252,225	33
252	162,446	681	229,312	29	6,381	3,725	2,567	350	808		31,311	30,311	500	79,884	34
7,668	3,732,942	7,443	2,415,004	832	144,052	19,520	500	3,920	10,600	4,500	432,981	425,544	7,437	942,000	35
76	41,562					2,946,666	215,478	79,268	601,988	2,049,332	14,105,821	13,944,257	161,564	26,006,156	36
5	4,057					30,965	1,500	29,465	29,465		1,042,952	1,037,242	5,710	1,370,486	37
54	36,701					1,577	408	35	1,134		59,230	58,705	525	70,419	38
63	36,532					7,177	1,254	499	4,221	1,200	83,803	83,192	611	163,394	39
18	11,462			8	1,534	16,956	3,610	635	12,811		65,588	65,075	513	146,086	40
54	22,700	1	300			3,922	2,299	121	302	1,200	6,897	6,744	153	46,595	41
2,452	1,034,738	947	249,027	358	43,475	2,406	298	474	1,634		18,132	16,663	1,479	57,252	42
						283,392	23,327	42,175	215,480	2,410	3,376,999	3,164,762	212,237	6,517,869	43

goods, 2; leather goods, 2; linen goods, 2; lumber and timber products, 1; mantels, slate, marble, and marbled, 2; marble and stone work, 2; mattresses and spring beds, 1; millinery and lace goods, 1; mirrors, 1; musical instruments, pianos and materials, 2; oil, not elsewhere specified, 1; optical goods, 2; paper goods, not elsewhere specified, 2; paper hanging, 1; patent medicines and compounds, 1; pickles, preserves, and sauces, 1; plastering and stuccowork, 1; regalia and society banners and emblems, 1; roofing and roofing materials, 2; ship and boat building, wooden, 1; steam fittings and heating apparatus, 1; surgical appliances, 1; tobacco, chewing, smoking, and snuff, 1; tools, not elsewhere specified, 1; toys and games, 1; washing machines and clothes wringers, 1; wire, 1; wirework, including wire rope and cable, 2; wool scouring, 1.

TABLE 8.—MANUFACTURES IN CITIES

TRENTON.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 All industries	570	\$26,174,895	\$3,402,780	\$4,947,856	\$4,726,605	\$13,097,654	578	839	\$996,432	14,457	\$6,791,026
2 Bicycle and tricycle repairing	6	3,725	1,000	1,000	750	975	8			7	8,424
3 Blacksmithing and wheelwrighting	32	48,985	23,200	10,940	4,858	9,887	36			31	16,158
4 Bookbinding and blank book making	3	6,100			4,600	1,500	3	1	720	17	5,702
5 Boots and shoes, custom work and repairing.	61	14,925	2,100	8,500	6,085	8,240	61			22	8,169
6 Bottling	7	78,110	13,000	24,000	22,310	18,800	6	7	4,120	51	27,996
7 Boxes, wooden packing	6	13,791	3,800	1,800	2,920	5,771	6			28	11,115
8 Bread and other bakery products	46	206,184	54,150	113,820	46,190	52,024	50	21	13,260	229	99,739
9 Brick and tile	6	271,969	119,754	44,200	25,350	32,665	8	1	624	220	85,585
10 Carpentering	14	73,450	12,650	25,050	9,050	25,700	14			109	66,952
11 Carriages and wagons	9	101,529	10,000	30,000	10,289	51,240	8	7	6,580	106	54,470
12 China decorating	4	79,835	2,500	22,958	3,150	51,227	5	8	10,888	80	24,712
13 Clothing, men's, custom work and repairing.	22	91,600	10,600	12,500	2,875	65,925	26	8	5,222	105	44,989
14 Clothing, women's, dressmaking	19	3,730			2,730	1,000	19			83	16,200
15 Clothing, women's, factory product	3	14,860	2,000	5,000	4,800	3,060	4	1	280	49	13,040
16 Confectionery	11	74,826	9,200	16,800	17,845	30,981	10	31	10,656	52	19,319
17 Cooperage	4	6,125	750	2,600	1,175	1,600	5			14	4,075
18 Dyeing and cleaning	4	2,045			1,660	385	4			7	3,148
19 Flouring and grist mill products	5	193,000	39,600	63,500	49,000	41,500	3	9	5,023	21	10,820
20 Foundry and machine shop products	17	620,757	71,000	139,412	191,792	218,553	13	40	56,937	634	281,732
21 Furniture, cabinetmaking, repairing, and upholstering.	6	3,345	300	300	1,665	1,180	6			7	4,211
22 Furniture, factory product	4	94,649	11,630	17,592	16,848	48,579	1	16	13,377	95	40,983
23 Iron and steel	3	7,069,989	802,598	460,000	993,340	5,914,051	129	129	158,531	3,679	1,507,876
24 Kaolin and other earth grinding	3	102,500	48,600	33,000	32,000	54,000	17			74	34,380
25 Lamps and reflectors	3	593,471	95,707	95,578	95,297	273,889	3	35	59,108	258	104,046
26 Liquors, malt	3	465,540	47,600	197,400	111,000	100,000	3	18	25,348	53	33,199
27 Looking-glass and picture frames	5	5,950		300	575	5,075	6	2	800	5	8,000
28 Lumber, planing mill products, including sash, doors, and blinds.	2	97,800	13,000	16,000	15,000	53,800	4	5	5,360	80	60,932
29 Masonry, brick and stone	6	74,220	14,600	3,700	11,620	44,300	7	7	5,300	159	156,000
30 Millinery, custom work	11	32,522	1,000	3,000	435	28,087	13	8	2,410	38	11,714
31 Mineral and soda waters	3	15,200	1,000	2,000	3,900	3,300	3	5	3,100	9	4,300
32 Monuments and tombstones	4	18,275	1,200	1,000	575	15,500	3			10	7,216
33 Optical goods	3	5,980			1,230	4,750	4	4	3,400	1	215
34 Painting, house, sign, etc	25	14,535	2,900	1,400	5,225	5,010	28			64	39,339
35 Paper hanging	14	57,675	14,000	11,000	1,425	31,250	15			50	28,140
36 Patent medicines and compounds	3	22,793			1,100	21,693	4			1	400
37 Photography	11	22,645	3,000	6,150	9,550	3,945	12	1	700	15	7,178
38 Plumbing, and gas and steam fitting	11	28,700	1,000	2,000	8,550	22,150	13	5	2,896	80	45,600
39 Pottery, terra cotta, and fire-clay products.	20	7,096,775	1,216,402	2,232,483	1,480,067	2,167,823	84	198	260,011	4,289	2,343,751
40 Printing and publishing, book and job.	10	155,838	53,600	28,400	61,900	11,938	11	6	4,016	75	38,401
41 Printing and publishing, newspapers and periodicals.	7	314,150	76,000	57,500	147,500	33,150	7	29	21,344	126	95,654
42 Roofing and roofing materials	11	66,835	14,600	22,488	8,436	21,861	18	4	2,611	56	34,801
43 Rubber and elastic goods	6	1,224,908	50,000	152,425	302,151	720,332	7	54	90,001	530	228,192
44 Saddlery and harness	7	21,171	3,000	5,000	310	12,861	7			11	5,887
45 Tinsmithing, coppersmithing, and sheet-iron working.	4	2,475			1,600	875	4			6	3,014
46 Tobacco, cigars and cigarettes	20	28,510	1,600	6,900	2,085	17,925	20	1	240	42	21,881
47 Watch, clock, and jewelry repairing	19	5,450			2,400	3,050	18			15	7,942
48 All other industries ¹	59	6,947,393	1,059,939	1,076,020	1,000,792	2,810,647	53	161	212,516	2,769	1,125,596

¹ Embraces agricultural implements, 1; awnings, tents, and sails, 1; belting and hose, leather, 1; belting and hose, rubber, 1; bicycles and tricycles, 1; boots and shoes, factory product, 1; boxes, cigar, 1; boxes, fancy and paper, 1; brass castings and brass finishing, 1; brooms and brushes, 1; carpets, rag, 1; carriage and wagon materials, 2; chemicals, 1; clothing, men's, factory product, 1; coffee and spice, roasting and grinding, 2; electrical apparatus and supplies, 1; emery wheels, 1; fertilizers, 2; food preparations, 2; gas, illuminating and heating, 1; grease and tallow, 1; hand knit goods, 1; hand stamps, 2; hardware, 1; ice, manufactured, 1; iron and steel, forgings, 2; ironwork, architectural and ornamental, 1; lock and gun smithing, 2; marble and stone work, 1; mattresses and

WEST HOBOKEN.

1 All industries	177	\$4,042,373	\$145,650	\$601,275	\$671,015	\$2,624,533	191	173	\$152,147	3,028	\$1,248,244
2 Awnings, tents, and sails	3	475		50	250	175	4			1	210
3 Bicycle and tricycle repairing	4	5,900			1,850	4,550	4			3	1,118
4 Blacksmithing and wheelwrighting	4	8,000	2,500	4,450	600	460	4			4	1,852
5 Boots and shoes, custom work and repairing.	19	25,425	3,200	8,800	1,820	13,605	19			4	2,048
6 Bread and other bakery products	20	73,428	12,750	43,300	9,470	7,908	20	3	1,560	50	23,813
7 Carpentering	18	99,905	26,500	53,500	6,325	13,580	20			96	85,145
8 Carriages and wagons	3	11,620	3,700	3,500	1,750	2,670	3			7	3,570
9 Clothing, men's, custom work and repairing.	8	6,364	900	1,100	770	3,594	8			8	2,555
10 Masonry, brick and stone	6	39,650	10,200	16,800	4,125	8,425	8			76	45,099
11 Millinery and lace goods	8	10,650	3,900	8,000	4,650	3,100	8			28	10,707

BY SPECIFIED INDUSTRIES: 1900—Continued.

TRENTON.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
11,641	\$6,000,886	2,484	\$638,600	332	\$61,590	\$2,057,474	\$97,650	\$107,882	\$1,774,730	\$77,203	\$18,057,504	\$17,366,069	\$691,435	\$31,645,695	1
7	3,424					1,159	740	59	860		2,795	2,795		10,500	2
31	16,158					3,074	2,331	396	347		39,692	38,579	1,113	78,625	3
7	3,120	8	2,307	2	275	1,082	996	66	30		4,567	4,445		18,000	4
19	7,834			3	325	5,761	5,460	106	195		20,680	20,605	75	56,455	5
51	27,996					25,347	1,210	377	23,760		86,822	86,374	448	181,771	6
28	11,115					510	206	105	199		10,574	10,129	445	26,198	7
203	94,718	7	1,480	19	3,541	21,934	9,233	2,609	10,837		235,413	276,077	10,336	549,586	8
211	84,199			9	1,386	6,361	966	1,185	4,210		21,967	11,579	10,388	143,068	9
109	66,952					32,010	571	534		30,000	114,132	113,390	762	268,614	10
106	54,470					5,921	2,338	1,845	1,733		66,850	55,664	1,186	152,247	11
22	12,083	46	10,975	12	1,654	6,578	156	333	6,089		53,890	58,204	686	114,984	12
72	36,352	81	8,356	2	281	17,956	6,793	1,237	4,967	4,904	71,089	70,497	592	175,173	13
2	1,000	81	15,200			2,670	2,670				16,477	16,165	312	49,500	14
2	960	47	12,080			580	500				29,230	28,745	485	48,000	15
80	16,352	22	3,967			7,868	4,725	407	2,736		69,029	68,039	1,500	145,330	16
14	4,075					365	150	40	175		5,250	5,250		20,425	17
5	2,790	1	150	1	208	1,232	1,169	17	55		1,379	1,299	80	10,100	18
21	10,320					4,547	1,000	898	2,649		232,654	291,444	1,210	353,113	19
609	276,663	19	4,000	6	1,069	16,041	1,756	2,606	11,313	466	419,012	390,664	28,348	894,239	20
7	4,211					571	540	14	17		1,920	1,863	52	10,800	21
92	39,933	3	1,050			11,798	1,740	655	9,403		43,427	47,446	981	129,323	22
3,450	1,452,058	175	48,734	54	7,034	794,308		18,183	776,123		9,950,687	9,737,791	212,896	13,260,787	23
74	34,380					7,739		2,149	5,590		133,039	119,390	13,649	199,577	24
149	75,916	104	28,130			96,188	500	1,050	94,638		190,135	184,622	5,513	505,509	25
53	33,199					164,398		4,894	160,004		82,578	73,713	8,865	385,307	26
4	2,800			1	200	1,009	984	56	29		6,929	6,919	10	17,174	27
80	60,932					2,013	240	498	1,230		87,976	87,220	755	174,200	28
159	156,000					6,830		675	1,155	5,000	104,569	103,669	900	400,800	29
9	4,800	37	11,589	1	125	7,253	3,827	329	2,972	125	40,772	40,372	400	101,331	30
10	7,216					4,482	170	207	4,105		15,133	14,398	235	33,260	31
1	215					897	624	63	205		80,225	30,200	25	44,736	32
04	39,339					1,805	1,100	30	675		5,490	5,390	100	14,500	33
49	27,790	1	350			2,092	1,423	132	482		13,365	13,315	50	90,750	34
1	400					2,796	1,962	414	420		25,670	25,575	95	74,425	35
10	5,718	5	1,460			449	132		317		610	609	1	3,320	36
80	45,600					4,677	2,316	133	1,223	1,000	5,633	5,411	227	32,720	37
3,284	2,054,930	887	204,628	118	24,196	3,788	2,664	404	720		57,640	57,191	449	157,047	38
68	36,072	10	2,000	2	329	835,759	6,300	28,469	344,707	5,733	1,106,291	909,133	287,108	4,735,142	39
117	93,196	6	1,800	3	358	7,127	2,334	898	3,305		31,422	29,047	2,375	109,744	40
56	34,891					12,517	1,158	1,377	9,932		57,008	52,498	4,510	254,116	41
483	217,713	14	4,176	23	6,303	5,576	1,167	321	4,033		66,652	66,176	476	126,900	42
10	5,737	1		1	150	45,705	1,000	6,110	38,595		956,900	925,421	31,479	1,689,893	43
6	3,014					2,018	1,490	43	485		12,052	11,971	81	29,130	44
34	19,820	2	1,000	6	1,061	742	618	34	90		5,078	5,033	40	10,340	45
15	7,942					12,826	2,173	207	10,446		27,272	27,227	45	72,407	46
1,727	897,333	978	215,168	64	13,045	4,966	4,916	25	25		5,357	5,357		31,670	47
						305,334	14,305	23,062	233,542	29,925	3,286,088	3,223,648	62,440	5,604,359	48

spring beds, 2; models and patterns, 2; musical instruments and materials, not specified, 1; musical instruments, pianos and materials, 1; oilcloth, floor, 1; pickles, preserves, and sauces, 1; refrigerators, 1; saws, 1; sewing machine repairing, 1; ship and boat building, wooden, 1; shirts, 1; slaughtering and meat packing, wholesale, 2; surgical appliances, 1; umbrellas and canes, 1; watches, 1; wirework, including wire rope and cable, 1; wood, turned and carved, 1; woolen goods, 2; worsted goods, 1.

WEST HOBOKEN.

1,479	\$719,846	1,475	\$512,283	74	\$16,115	\$677,713	\$22,126	\$9,321	\$165,272	\$480,994	\$2,829,739	\$2,793,505	\$31,234	\$5,491,760	1
3	1,118	1	210			298	278	6	14		2,120	2,110	10	4,518	2
4	1,852					886	720		166		6,063	5,911	157	11,322	3
4	2,043					347	25	68	254		3,144	2,997	147	8,460	4
						2,304	1,385	82	337		6,702	6,182	520	16,832	5
49	28,609			1	204	12,252	3,786	758	7,703		97,505	93,182	4,323	170,334	6
96	85,145					77,257	612	731	4,435	71,479	113,227	112,921	306	319,088	7
8	3,570					352	144	60	148		4,709	4,576	133	11,743	8
6	2,305	1	250			1,765	1,443	30	285		12,640	12,223	412	21,162	9
76	45,099					8,278	120	335	3,643	4,130	66,629	66,575	54	132,021	10
6	5,100	14	4,932	3	625	1,846	276	123	742	700	6,505	6,342	253	25,209	11

TABLE 8.—MANUFACTURES IN CITIES

WEST HOBOKEN—Continued,

	MANUFACTURING AND MECHANICAL INDUSTRIES, AND CITIES AND TOWNS.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
12	Millinery, custom work.....	4	\$4,246			\$750	\$3,496	5		6	\$1,065	
13	Painting, house, sign, etc.....	18	50,135	\$9,800	\$23,500	4,655	12,180	22		47	25,822	
14	Plumbing, and gas and steam fitting.....	9	31,130	6,200	9,300	4,670	10,900	9	\$520	31	14,963	
15	Printing and publishing, book and job.....	3	4,415			3,100	1,315	3		2	1,710	
16	Saddlery and harness.....	4	11,170	2,000	4,800	485	3,985	4				
17	Silk and silk goods.....	5	3,327,900	27,500	348,000	584,700	2,417,700	5	155	136,677	2,306	880,171
18	Tobacco, cigars and cigarettes.....	9	22,780	5,100	5,950	1,655	10,075	9		12	7,355	
19	All other industries.....	37	800,180	31,800	72,125	89,940	106,815	41	14	18,890	352	141,036

¹Embraces artificial feathers and flowers, 2; brooms and brushes, 1; buttons, 1; carpets, rag, 1; chemicals, 1; clothing, women's, dressmaking, 1; cotton small wares, 1; dyeing and finishing textiles, 1; electrical construction and repairs, 1; engraving and diecasting, 1; fancy articles, not elsewhere specified, 1; foundry and machine shop products, 1; fruits and vegetables, canning and preserving, 1; furniture, cabinetmaking, repairing, and upholstering, 1; glass, cutting, staining, and ornamenting, 1; gloves and mittens, 2; ironwork, architectural and ornamental, 1; lock and gun smithing, 1; lumber and timber products, 1; lumber, planing mill

TABLE 9.—MANUFACTURES IN CITIES AND

1	Total for cities and towns.....	2,380	\$53,968,663	\$4,067,098	\$10,572,209	\$12,228,686	\$27,100,680	2,514	1,980	\$2,355,055	34,819	\$15,267,218
2	Bloomfield.....	150	3,854,149	180,370	396,495	696,441	2,030,843	162	148	224,014	1,810	899,298
3	Boonton.....	39	575,470	13,330	68,375	174,460	318,805	42	32	30,418	574	218,613
4	Bordentown.....	35	590,439	35,540	81,075	95,718	378,111	36	12	9,615	469	123,632
5	Boundbrook.....	47	716,323	17,303	95,203	272,935	330,882	44	24	34,794	523	190,005
6	Bridgeton.....	135	2,857,651	249,336	343,000	452,077	1,313,238	154	119	109,344	2,338	886,188
7	Burlington.....	88	1,471,543	101,900	226,958	446,254	696,431	96	105	142,106	1,461	640,453
8	Dover.....	66	951,695	98,325	224,956	292,020	334,994	56	61	45,389	1,867	657,548
9	Gloucester City.....	74	3,038,922	123,350	187,840	622,531	2,105,201	75	72	213,294	1,555	535,923
10	Guttenberg.....	43	302,807	39,400	101,900	80,100	81,407	43	3	7,244	125	85,670
11	Harrison.....	79	5,210,605	662,100	830,216	1,607,081	2,102,178	72	207	237,807	2,983	1,463,265
12	Irvington.....	60	365,503	35,375	99,600	68,496	161,532	67	15	16,145	381	139,485
13	Kearney.....	33	2,097,861	135,736	483,246	482,384	996,495	32	33	47,620	1,102	417,985
14	Lambertville.....	70	1,763,221	96,010	234,233	304,776	1,128,202	69	72	76,407	913	367,959
15	Millville.....	47	3,229,206	194,250	339,873	423,993	1,771,090	50	154	161,398	2,290	1,115,636
16	Montclair.....	197	1,037,352	164,400	215,000	228,151	429,801	207	30	29,650	1,032	619,079
17	Mt. Holly.....	61	460,559	40,850	95,159	146,171	178,879	67	28	21,180	493	167,178
18	North Plainfield.....	83	142,524	13,250	32,700	22,889	73,685	35	7	6,024	147	77,701
19	Perth Amboy.....	129	6,637,766	592,663	1,872,765	1,422,334	2,750,004	127	161	186,396	2,258	1,053,242
20	Phillipsburg.....	87	3,411,239	121,216	597,949	590,592	2,101,482	92	77	106,413	2,560	1,000,331
21	Plainfield.....	135	2,638,449	170,600	637,945	744,212	1,230,692	143	139	150,985	1,751	970,018
22	Rahway.....	100	915,208	58,000	132,435	189,547	485,226	111	42	36,184	778	407,490
23	Raritan.....	27	659,471	86,800	185,800	151,077	236,294	27	11	17,400	1,010	299,970
24	Salem.....	75	722,434	61,627	148,705	133,004	379,098	82	36	24,477	933	316,303
25	Somerville.....	88	1,160,976	74,700	163,100	296,885	626,291	97	58	64,353	402	285,050
26	South Amboy.....	44	282,770	15,100	161,525	40,405	65,740	47	13	10,485	238	113,344
27	South Orange.....	45	108,664	20,500	21,375	13,085	48,704	53	3	2,720	157	88,740
28	Union.....	159	5,618,279	309,836	1,326,194	954,236	3,027,963	163	92	164,086	1,662	841,247
29	Vineland.....	58	840,305	42,300	159,270	185,984	462,751	68	45	23,456	837	369,976
30	Washington.....	41	759,518	21,125	108,900	112,005	517,488	43	57	35,422	650	258,050
31	West Orange.....	64	1,373,039	167,593	345,866	489,423	370,157	70	74	68,804	1,034	499,319
32	Woodbury.....	81	1,129,715	123,663	196,611	483,425	327,016	79	45	41,625	451	258,467

BY SPECIFIED INDUSTRIES: 1900—Continued.

WEST HOBOKEN—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
		4	\$841	2	\$224	\$1,362	\$1,090		\$272		\$3,846	\$3,194	\$152	\$9,056	12
47	\$25,822					5,629	1,894	\$396	3,139	\$200	17,260	17,123	137	68,522	13
31	14,968					3,960	1,028	185	2,687	60	43,098	42,576	522	73,551	14
2	1,710					935	728	8	204		1,909	1,854	55	7,534	15
						966	600	64	302		10,459	10,376	83	15,407	16
939	394,830	1,316	473,361	51	12,480	527,884	3,910	4,830	116,637	402,507	2,136,699	2,117,267	19,432	3,961,054	17
12	7,355					4,536	768	65	3,703		10,658	10,355	303	28,888	18
196	105,815	189	32,639	17	2,582	26,858	2,314	1,530	20,596	1,913	287,021	282,736	4,285	606,949	19

products, including sash, doors, and blinds, 1; marble and stone work, 1; mineral and soda waters, 1; models and patterns, 1; paper hanging, 1; photography, 1; plastering and stuccowork, 1; printing and publishing, newspapers and periodicals, 2; roofing and roofing materials, 1; tinsmithing, coppersmithing, and sheet-iron working, 2; toys and games, 1; watch, clock, and jewelry repairing, 2; wood, turned and carved, 1.

TOWNS UNDER 20,000 IN POPULATION: 1900.

25,640	\$13,166,561	7,140	\$1,866,135	1,539	\$234,522	\$4,763,935	\$307,968	\$217,147	\$3,461,176	\$777,654	\$40,314,662	\$38,990,370	\$1,824,292	\$72,522,334	1
1,401	768,578	372	119,341	67	11,379	256,025	14,176	12,469	192,001	37,379	1,895,655	1,854,220	41,435	3,860,796	2
456	189,943	117	28,598	1	72	48,295	13,726	2,269	32,300		1,009,005	993,313	15,692	1,458,942	3
96	44,980	280	64,058	93	14,594	35,555	1,331	1,795	31,877	52	405,675	400,253	5,422	663,706	4
421	164,317	83	23,001	19	2,687	69,737	5,936	3,037	51,099	9,665	352,133	335,215	16,918	742,374	5
1,775	734,680	441	83,813	117	17,695	99,557	12,294	9,455	66,316	11,492	1,216,192	1,091,457	124,735	2,649,919	6
1,043	520,272	403	117,698	15	2,433	101,573	7,877	6,824	63,332	24,040	1,738,443	1,761,688	36,805	2,905,991	7
1,177	621,693	150	30,360	40	5,495	44,333	11,757	4,893	27,563	170	710,248	680,535	29,713	1,304,850	8
637	314,680	674	181,623	244	39,620	285,658	12,304	8,870	262,775	1,209	1,260,002	1,208,512	51,490	2,922,242	9
120	81,450	4	1,004	1	216	62,093	2,886	982	57,595	630	116,433	110,769	5,664	344,531	10
1,975	1,178,978	911	270,156	97	14,131	385,948	25,822	19,620	324,506	16,000	3,297,663	3,218,566	79,157	6,331,733	11
290	130,664	40	8,662	1	159	67,301	5,307	1,028	12,294	48,672	1,138,248	1,125,779	12,469	1,773,556	12
607	294,750	333	99,900	162	23,335	127,612	2,943	18,299	93,670	12,700	1,081,948	1,061,848	20,100	1,845,587	13
308	342,471	99	24,307	6	681	130,697	6,638	4,415	108,314	11,330	1,383,515	1,356,980	26,535	2,264,223	14
1,569	957,417	433	113,927	288	44,352	177,303	3,452	17,776	154,874	1,206	964,554	815,331	149,223	2,610,332	15
1,029	601,336	62	17,643	1	100	93,462	22,506	7,229	55,377	8,350	1,140,753	1,128,774	11,979	2,246,317	16
286	117,007	185	47,474	22	2,697	34,014	6,968	2,070	15,611	9,365	338,130	332,779	5,351	699,183	17
142	76,504	2	900	3	300	20,829	6,719	613	4,497	9,000	148,399	143,814	4,585	312,816	18
2,182	1,037,634	52	11,998	24	3,610	435,833	21,280	13,333	260,611	131,009	11,631,704	11,428,095	203,609	14,730,923	19
1,938	817,260	611	181,716	11	1,355	244,560	6,302	15,856	111,501	110,901	2,906,360	2,653,641	252,719	4,952,277	20
1,692	931,889	154	36,940	5	1,180	233,886	27,601	12,305	188,921	55,059	1,144,724	1,119,573	25,151	3,229,969	21
621	379,661	156	27,629	1	200	69,085	10,334	4,868	53,773	60	502,048	480,396	21,652	1,149,247	22
580	209,542	314	74,498	116	15,930	268,974	1,258	6,288	259,228	2,200	442,409	422,256	20,153	1,083,280	23
580	260,328	246	40,917	107	15,058	34,042	6,015	4,448	23,579		550,033	514,589	35,504	1,155,099	24
353	202,152	40	31,562	9	1,336	100,710	17,955	4,352	39,603	38,800	797,606	779,534	18,072	1,354,373	25
226	110,934	3	754	9	1,656	11,326	2,761	1,267	3,269	4,029	147,865	140,952	6,913	322,457	26
187	83,908	20	4,332			12,841	3,486	510	5,735	3,110	165,012	164,674	1,238	327,552	27
1,067	710,287	587	129,311	8	1,149	899,514	32,921	17,721	650,634	198,238	1,650,490	1,618,164	32,326	3,986,381	28
629	313,513	191	53,301	17	3,162	34,532	4,502	3,132	24,333	2,455	775,360	761,035	4,325	1,450,072	29
533	241,492	102	15,137	10	1,421	145,327	3,716	2,633	120,307	9,621	446,259	433,507	7,752	999,262	30
967	473,272	66	20,859	1	1,188	67,788	2,832	4,962	48,569	11,375	473,645	455,201	23,444	1,350,170	31
398	246,969	9	3,207	44	8,231	115,420	3,693	3,078	99,112	9,537	378,191	354,030	24,161	988,612	32